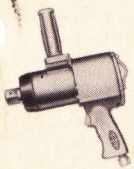
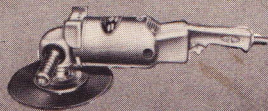


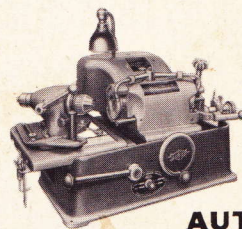
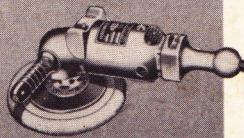
Air and Electric **TOOLS**



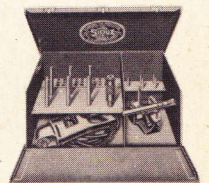
INDUSTRIAL



AUTO BODY



AUTOMOTIVE



CATALOG NO.

62



ELECTRIC AND AIR TOOLS

**SOLD ONLY BY
AUTHORIZED DISTRIBUTORS**

**PRICES ARE NET TO USER AND ARE
SUBJECT TO CHANGE WITHOUT NOTICE**

**WE RESERVE THE RIGHT TO CHANGE DESIGN
OF THE TOOLS ILLUSTRATED IN THIS CATALOG**

MOTOR INFORMATION

DRILLS AND PORTABLE ELECTRIC TOOLS

Are equipped with Universal Motors. These will work on any cycle (60 or less) and direct current for voltage specified. "Standard 115 or 230 volt." Also available in 240 or 250 volt, at same price.

115 volt shipped on all orders unless otherwise specified. Not made in 3 phase.

VALVE GRINDING MACHINES — SHAFTS AND BENCH GRINDERS

Are equipped with either capacitor or split phase start, induction run motors. These will operate only on voltage and cycle as specified. "Standard 115 or 230 volt, 50 or 60 cycle." Three phase available for 220 volt and over.

115 volt, 60 cycle, single phase shipped on all orders unless otherwise specified, except No. 682 machine which is shipped 230 volt, 60 cycle, single phase.

Special voltages and cycles extra price.

AIR TOOLS

Sioux air tools are manufactured with the same attention to precision, which is a trade mark of Sioux electric tools.

The advantages of Sioux air tools is their light weight which reduces operator fatigue, lower air consumption, cool running, safe, no shock hazard, and have extremely low maintenance cost with minimum attentions.

Air line lubricators, filters, and regulators, are the big three which control air tool maintenance cost.

1. The proper amount of quality air motor oil is of prime importance to air motors. It is not sufficient to squirt oil into the air tool twice daily, except for intermittent air tool service.
2. An air filter placed with the lubricator at the air outlet to the tool will collect moisture, line scale, and prevent washing away lubrication; thereby, preventing rust and corrosion.
3. Controlled air pressure. There is false security in maintaining excessive air pressure at air tools. Sioux air tools, unless otherwise specified, are designed to operate at 90 P.S.I. with maximum efficiency and longer life. Pressures in excess of this increase maintenance cost. Low air pressure reduces the efficiency of air tools. At 70 P.S.I. the efficiency is about 30 per cent lower than at 90 P.S.I.

COMPLETE FACTORY REBUILDING SERVICE

Tools rebuilt and refinished in our factory carry the same implied warranty as new units. Our factory policy is to make no partial repairs, but in all cases to rebuild into new or equal condition. Parts that are badly worn or test too weak for ordinary service are always renewed.

GUARANTEE

All Sioux tools are carefully inspected before shipment.

We guarantee to replace any part of a tool found by us to be defective due to faulty material or workmanship and which has not been misused or carelessly handled.

The complete tool or part must be returned to our factory or authorized service station, transportation charges prepaid. We decline responsibility where repairs have been made or attempted by others. No other guarantee is authorized by us.

IMPORTANT

When ordering Replacement Parts for any Sioux Tool, be sure to specify Catalog Number and Serial Number of the Tool for which the parts are wanted.

AUTHORIZED SERVICE STATIONS

Authorized, completely equipped Service Stations are located in most principal cities. See Master Price List for name and location of Service Station or Branch most convenient to you.

**SIOUX PORTABLE ELECTRIC TOOLS ARE APPROVED BY NATIONAL UNDERWRITERS
LABORATORIES — CANADIAN STANDARDS ASSOCIATION**

EASTERN BRANCH, 575 CONNECTICUT AVE., SO. NORWALK, CONN.

CANADIAN WAREHOUSE: 379 COMSTOCK ROAD, SCARBOROUGH, TORONTO, ONT., CANADA

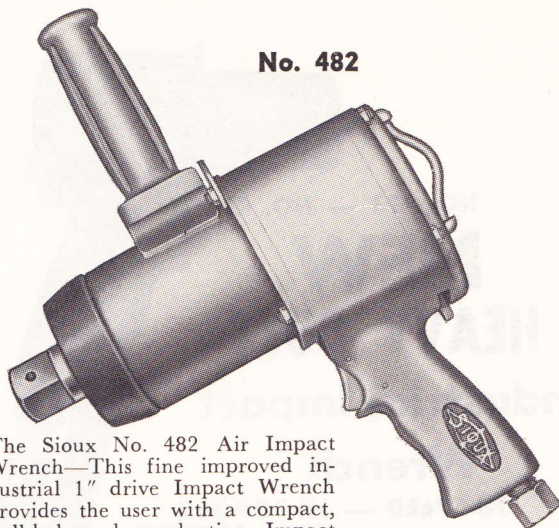
ALBERTSON & CO., INC.

2801-2999 FLOYD BOULEVARD

SIOUX CITY 2, IOWA

PRINTED IN U.S.A.





No. 482

The Sioux No. 482 Air Impact Wrench—This fine improved industrial 1" drive Impact Wrench provides the user with a compact, well-balanced production Impact Wrench. The fast run down characteristic coupled with balanced impacts assures long life high output. Torque control is adjustable in the right hand rotation. Comes equipped with bail for horizontal or vertical suspension, adjustable side handle for convenience of application. 6' length 1/2" ID leader hose with 1/2 M.P.T. on each end, No. 1386. Built in oil reservoir. For continuous operation, air control unit No. 1347 in air line, is recommended (see page 25). Optional 6" extension anvil available. Suffix Ext-6 \$10.00 extra.



AIR TOOL LUBRICATION

Sioux Air Lubricating Oil is especially designed for lubrication of air tools.

This oil has the quality of adhering to the air motor parts, thereby giving longer and better lubrication. The fact that Sioux Air Motor Oil prevents rust and resists atomization makes it an ideal air motor lubricant.

No. 288—Sioux Air Motor Oil, 1/2 pint

No. 288-1—Sioux Air Motor Oil, 1 quart, also packed in 4-quart cartons, shown above.

No. 288-2—Sioux Air Motor Oil, 1 gallon

SIoux SPECIAL GREASE TYPE A

Extreme pressure grease for Sioux Impact Tool Mechanism.

No. 289—3 ounce tube

No. 289-1—1 2-lb. can

No. 289-2—1 6-lb. can

AIR IMPACT WRENCH



HEAVY DUTY 1" SQUARE DRIVE Industrial Impact Wrench

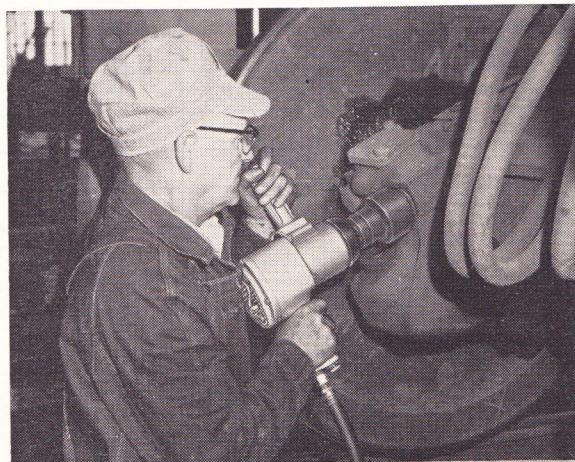
**HI-SPEED — HI-TORQUE
HIGH PERFORMANCE**

This revolutionary new Impact Wrench mechanism coupled with an improved air motor is designed to operate at maximum efficiency and torque output at 90 pounds per square inch air pressure.

SPECIFICATIONS

Wrench Number	482
Square Drive Size	1"
Cap. Bolt Size	1 1/4"
Speed, RPM	4000
Impacts Per Minute, Run Down	1500
Impacts Per Minute, Max. Load	640
Hose Connections	1/2" PT
Hose Size	1/2"
Length	9 7/8"
Side to Center	2"
*Tension in 5 Sec.	80,000 lbs.
*Tension in 10 Sec.	85,000 lbs.
Net Weight—Tool Only	18 lbs. 10 oz.

*Tested on Skidmore Wilhelm Tester Using 1 1/4" Test Bolt.



The 482 in use for heavy-duty diesel locomotive maintenance.



AIR IMPACT WRENCHES

3/8" AND 1/2" SQUARE DRIVE

Here is the revolutionary new Sioux Impact Wrench custom designed for high speed production, maintenance, and repair shops. These two new Impact Wrenches run faster, hit harder, and yet give considerably longer service.

This new Impact mechanism coupled with a fast accelerating air motor assures powerful efficient impacting, and extremely long life required in today's high speed assembly.

Compare these advantages — light weight, high speed, one hand operation reversing lever, no torque kick back, small side to center dimension.

Recommended air pressure 90 P.S.I.

For best performance we recommend the Air Control Unit No. 1345 installed in the air line.

Suffix EXT for unit with 2" added length to drive anvil. \$8.00 Extra. (Example 473-EXT)

Above units have as standard equipment a 6' length 5/16" I.D. leader hose No. 1370 with 1/4" MPT on each end.

SPECIFICATIONS

	WRENCH NUMBER	
	473	474
Square Drive Size	3/8"	1/2"
Cap. Bolt Size	5/16"	3/8"
Speed, R.P.M.	12,000	12,000
Impacts Per Minute Run Down	4,000	3,000
Impacts Per Minute Max. Load	1,800	1,500
Hose Connection	1/4" PT	1/4" PT
Hose Size	5/16"	5/16"
Length	5 5/8"	5 11/16"
Side to Center	13/16"	13/16"
Net Weight-Tool Only	2.9 lbs.	2.9 lbs.

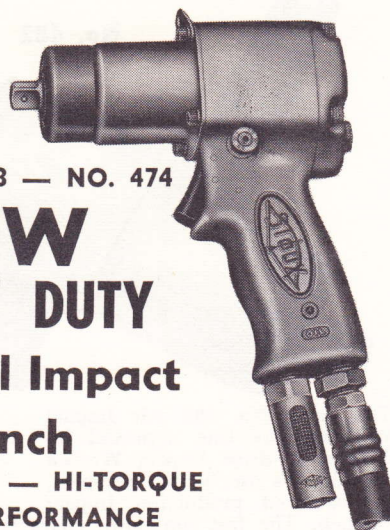
References

Adaptors	Page 24	Attachments	Pages 23-24
Air Controls	Page 25	Lubrication	Page 1
Air Hose	Page 25	Sockets	Page 20
Grease Gun	Page 25		

NO. 473 — NO. 474

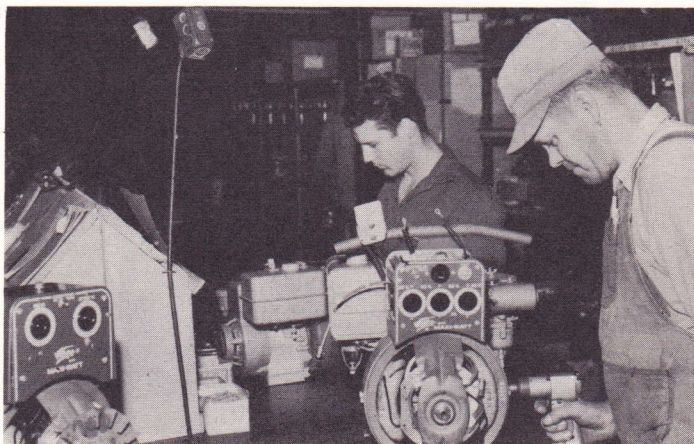
NEW HEAVY DUTY Industrial Impact Wrench

**HI-SPEED — HI-TORQUE
HI-PERFORMANCE**



No. 473—3/8" Square Drive Impact Wrench, complete with 6' leader hose and No. 2305 deflecting silencer. For high speed production, maintenance and repair.

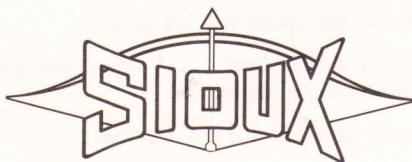
No. 474—1/2" Square Drive Impact Wrench, complete with 6' leader hose and No. 2305 deflecting silencer. Same as No. 473 but with higher torque output and 1/2" square drive.



**STANDARD
THE**



Watch



IN

"62"

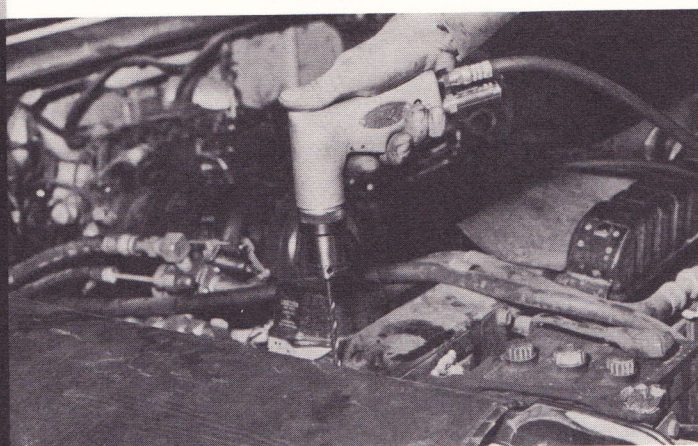


NEW

NO. 1450 PISTOL GRIP AIR DRILL

No. 1450 is a NEW SIOUX 1/4" pistol grip air drill. A lightweight, versatile, extremely powerful drill for general purpose drilling. Smooth action, two-stage trigger provides slow speed for locating point of drill bit when starting to drill. Exclusive design includes a remote exhaust system which carries air and lubricant away from the work and the operator, adjustable speed control and oil reservoir. The unit comes with an 8 foot leader hose and No. 2305 deflecting silencer as standard equipment.

For best performance we recommend the Air Control Unit No. 1345 installed in the air line.



Recommended air pressure 90 P.S.I.
Optional equipment includes No. 44124 Chuck Guard and No. 1364 Exhaust Hose complete.

SPECIFICATIONS

Unit No.	1450
Handle	Pistol Type
Chuck Size	1/4"
Spindle Thread	3/8" - 24
Spindle Offset	13/16"
R. P. M. - No Load	2600
H.P. at 1200 RPM	.32
Recommended Air Pressure	90 P.S.I.
Max. Air Consumption at 2600 RPM	15 C.F.M.
Hose Connection	1/4" PT
Over-all Length with Chuck	6 7/8"
Height	5 1/4"
Net Weight-Tool Only	2 Lbs. 4 Oz.

AIR DRILL AIR IMPACT SCREW DRIVER



NO. 470

NEW

HEAVY DUTY Industrial Impact Screw Driver

Quality, Stamina and Power

No. 470—Air Impact Screw Driver has stamina, rugged power and high quality mechanism. Light in weight coupled with high speed action — forward and reverse — makes this an ideal tool in the assembly and fabrication of plastic, wood and metal components. This unit is equipped with SIOUX Silent exhaust system that takes air and lubricant away from work.

The unit comes equipped with a 6 foot length 5/16" I.D. leader hose No. 1370 with 1/4" MPT on each end, No. 2305 Deflecting Silencer and 1/4" Hex. Quick Change Chucks.

SPECIFICATIONS

Unit No.	470
Drive Size	1/4" Hex
Speed, RPM	12000
Hose Connection	1/4" PT
Length	5 7/8"
Side to Center	13/16"
Net Weight - Tool Only	2.9 Lbs.

References

Air Controls Page 25 Lubrication Page 1
Air Hose Page 25 Attachments Page 26
Bits Page 28

TOOLS

WORLD
OVER



AIR IMPACT WRENCHES

1" and 3/4" SQUARE DRIVE

REVERSIBLE CONTROL POWER

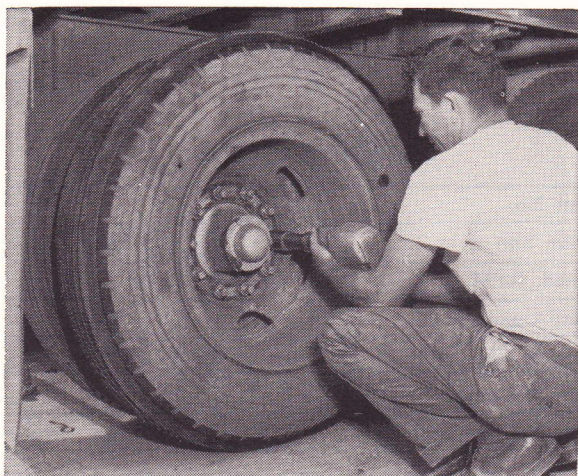
A proven concept of rugged power in two high torque wrenches. The Sioux wrenches of 3/4" and 1" square drive are balanced as to weight and produced power. Certified torque, as shown in specifications, with 8 points of power selection make them most ideal for heavy duty work. Built in oil reservoir.

SPECIFICATIONS

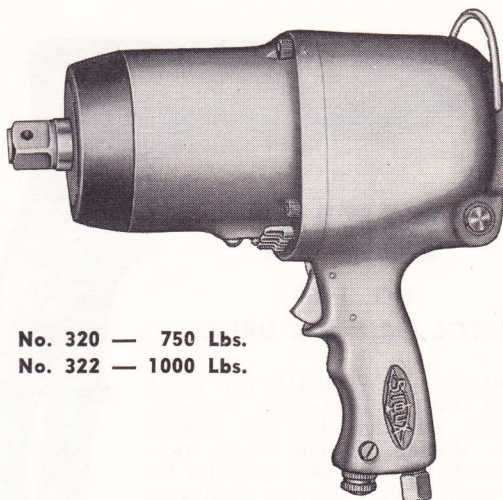
	Wrench Number	
	320	322
Square Drive Size	3/4"	1"
Cap. Bolt Size	1"	1 1/8"
Speed, R.P.M.	2700	2700
Hose Connections	3/8" PT	3/8" PT
Length	10 1/8"	10 1/4"
Side to Center	2"	2"
Average Air Consumption	7 1/2 Cu. Ft.	8 Cu. Ft.
Net Weight — Tool Only	15 1/8 lbs.	15 1/2 lbs.

Above units have as standard equipment a 6' length 1/2" I.D. leader hose No. 1381 with 3/8" MPT on each end.

Use 1/2" I.D. hose for above wrenches. Designed to operate at 90 lbs. per square inch.



Wheel removal and installation on tractors and trailers.



No. 320 — 750 Lbs.

No. 322 — 1000 Lbs.

The No. 320-3/4" or the No. 322-1" Sioux wrenches are power packed, yet light in weight for easy handling, and reaction balanced for minimum shock, thus less operator fatigue.

Suffix EXT for unit with 3" added spindle length to drive anvil. \$8.00 Extra. (Example 320-EXT)

Suffix EXT-6 for 6" added spindle length \$10.00 Extra.

METAL CARRYING CASE



**STANDARD
THE**

No. 321—Metal Carrying Case only for Nos. 320, 322 Air Impact Wrenches.

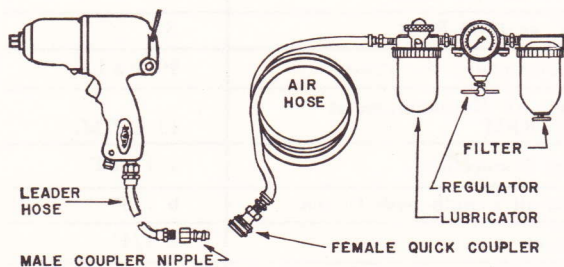
No. 6600—Set of 6 Sockets, 3/4" Square Drive. Includes 13/16", 7/8", 15/16", 1", 1 1/4", 1 7/16", in Cardboard carton.

No. 8600—Set of 6 Sockets, 1" Square Drive. Includes 15/16", 1", 1 1/8", 1 1/4", 1 7/16", 1 5/8", in Cardboard carton.

References

Adaptors Page 24 Attachments .. Pages 23-24
Air Controls Page 25 Lubrication Page 1
Air Hose Page 25 Sockets Page 22

RECOMMENDED HOOK UP

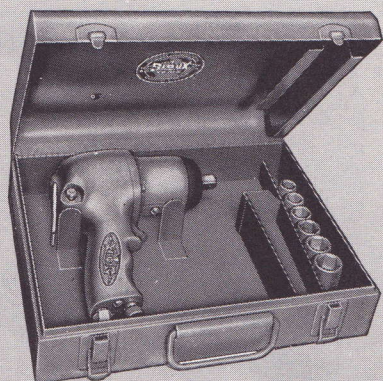




No. 317—195 Lbs.
No. 318—250 Lbs.

**A WRENCH WITH THE TORQUE
FOR EVERY PURPOSE
AND WITH
8 POINT POWER SELECTOR**

The Sioux Line of 5/8" Drive Wrenches is designed to cover a field with, and beyond, that of the conventional powered 1/2" drive Air Impact Wrenches and where the use of 5/8" Square Drive Sockets is desirable for utility or economy. Every care of manufacture has gone into these fine 5/8" Drive Sioux Wrenches with the 8 point power selector. Built in oil reservoir.



AIR IMPACT WRENCH SET

No. 317-S—Includes 1-No. 317 Impact Wrench and 1-No. 5600 Socket Set in Cardboard carton.

No. 317-C—Includes 1-No. 317 Impact Wrench, 1-No. 5600 Socket Set in No. 328A Metal Carrying Case.

No. 318-S—Includes 1-No. 318 Impact Wrench and 1-No. 5600 Socket Set in Cardboard carton.

No. 318-C—Includes 1-No. 318 Impact Wrench, 1-No. 5600 Socket Set in No. 328A Carrying Case.

No. 328-A—Metal Carrying Case (only) 12" x 9 3/4" x 2 1/2" deep.

References

Adaptors Page 24 Attachments .. Pages 23-24
Air Controls Page 25 Lubrication Page 1
Air Hose Page 25 Sockets Page 22

AIR IMPACT WRENCHES



5/8" SQUARE DRIVE

REVERSIBLE CONTROL POWER

A popular industrial and general use size Impact Wrench. It has great versatility of use. It is reaction balanced, has less vibration feedback for minimum operator fatigue, with plenty of power to give that extra punch.

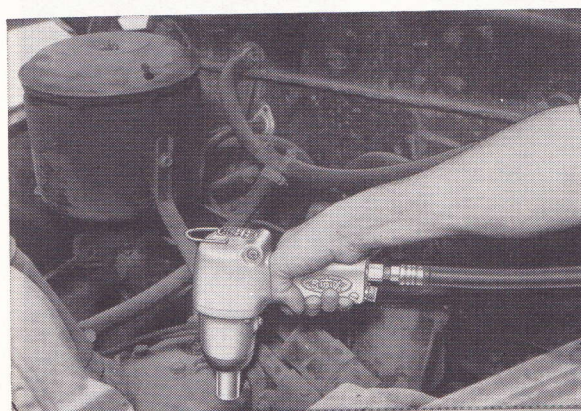
SPECIFICATIONS

	Wrench Number	
	317	318
Square Drive Size	5/8"	5/8"
Cap. Bolt Size	5/8"	3/4"
Speed, R.P.M.	5500	5000
Hose Connections	1/4" PT	1/4" PT
Length	7 1/8"	7 1/8"
Side to Center	1 7/16"	1 7/16"
Average Air Consumption	3 5/8 cu. ft.	3 3/4 cu. ft.
Net Weight — Tool Only	6 lbs.	6 lbs.

Designed to operate at 90 lbs. per square inch.

Suffix EXT for unit with 3" added length to drive anvil.
\$8.00 Extra. (Example 317-EXT)

Suffix to above EXT-5 for 5" added spindle length
\$10.00 Extra.



No. 317 being used for automotive engine maintenance.



AIR IMPACT WRENCHES

1/2" SQUARE DRIVE

OUT-PERFORMS ALL OTHERS

The Sioux No. 315 and 316 Air Impact Wrenches are rugged and powerful, economical in cost, yet the most advanced in design. They are reaction balanced, cause less vibration feedback and cause a minimum of operator fatigue. Built in oil reservoir.

SPECIFICATIONS

	Wrench Number	
	315	316
Square Drive Size	1/2"	1/2"
Cap. Bolt Size	1/2"	5/8"
Speed, R.P.M.	5800	5500
Hose Connections	1/4" PT	1/4" PT
Length	7 1/8"	7 1/8"
Side to Center	1 7/16"	1 7/16"
Average Air Consumption	3 1/2 Cu. Ft.	3 5/8 Cu. Ft.
Net Weight — Tool Only	5 1/2 lbs.	5 1/2 lbs.

Designed to operate at 90 lbs. per square inch.

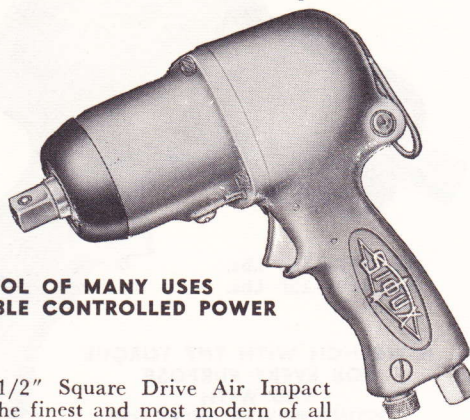
References

Adaptors Page 24 Attachments .. Pages 23-24
Air Controls Page 25 Lubrication Page 1
Air Hose Page 25 Sockets Page 22



No. 316 is a real time saver on maintenance of diesel driven trucks.

NO. 315 AND NO. 316 1/2" SQUARE DRIVE



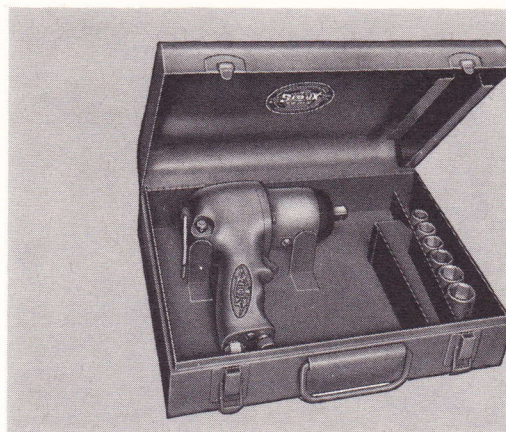
TOOL OF MANY USES REVERSIBLE CONTROLLED POWER

No. 315—1/2" Square Drive Air Impact Wrench. The finest and most modern of all impact wrenches with 8 point power selector.

No. 316—1/2" Square Drive Air Impact Wrench. All the fine features of the No. 315 but with added power and torque.

Suffix EXT for unit with 3" added spindle length to drive anvil. \$8.00 Extra. (Example 315-EXT)

Suffix to above EXT-5 for 5" added spindle length. \$10.00 Extra.



**STANDARD
THE**

These sets are designed to give you the most practical 1/2" square drive applications. High precision and simplicity of parts make the Sioux Impact Wrenches the most perfected tools of their type and size, with certified power and torque that leaves no guesswork in their use.

AIR IMPACT WRENCH SETS

No. 315-S—Includes 1-No. 315 Impact Wrench and 1-No. 4601 Socket Set in Cardboard carton.

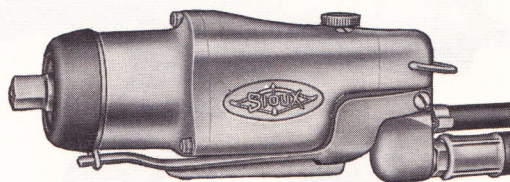
No. 315-C—Includes 1-No. 315 Impact Wrench, 1-No. 4601 Socket Set in No. 328-A Metal Carrying Case.

No. 316-S—Includes 1-No. 316 Impact Wrench and 1-No. 4601 Socket Set in Cardboard carton.

No. 316-C—Includes 1-No. 316 Impact Wrench, 1-No. 4601 Socket Set in No. 328-A Metal Carrying Case.

No. 328-A—Metal Carrying Case for 315 and 316.

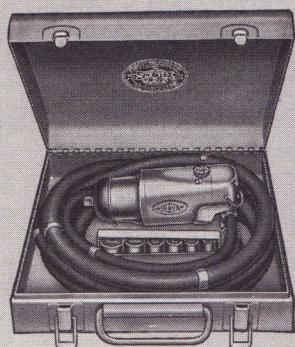
**REACTION BALANCED LESS VIBRATION
FEEDBACK MINIMUM OPERATOR FATIGUE**



Two proven Impact Wrenches — Light in Weight — High in power selection, with the perfected remote air exhaust that takes exhaust 6 feet from the unit. Quiet and clean operation.

Simplicity of parts and high precision of manufacture make these units the most perfected tools of their type and size.

With certified power and torque that leaves no guesswork in their purchase or use. SIOUX 8 point power selector gives right torque for perfect application.



AIR IMPACT WRENCH SETS

No. 313-S—Includes 1-No. 313 Impact Wrench and 1-No. 3600 Socket Set in Cardboard carton.

No. 313-C—Includes 1-No. 313 Impact Wrench, 1-No. 3600 Socket Set in No. 327 Metal Carrying Case.

No. 314-S—Includes 1-No. 314 Impact Wrench and 1-No. 4600 Socket Set in Cardboard carton.

No. 314-C—Includes 1-No. 314 Impact Wrench, 1-No. 4600 Socket Set in No. 327 Metal Carrying Case.

METAL CARRYING CASE

No. 327—Metal Carrying Case for No. 313 or No. 314 Impact Wrenches or No. 303 Air Screw Driver. Will hold unit, leader and exhaust hoses and socket set.

AIR IMPACT WRENCHES



1/2" and 3/8" SQUARE DRIVE

1/2" AND 3/8" PRODUCTION TYPE

No. 313—3/8" Square Drive Impact Wrench, complete with 6' leader hose and 6' exhaust hose. For production or shop.

No. 314—1/2" Square Drive Impact Wrench complete with 6' leader hose and 6' exhaust hose. Same as No. 313 but with higher power torque output, and 1/2 square drive.

Suffix EXT for unit with 2" added spindle length to drive anvil. \$8.00 Extra. (Example 313-EXT)

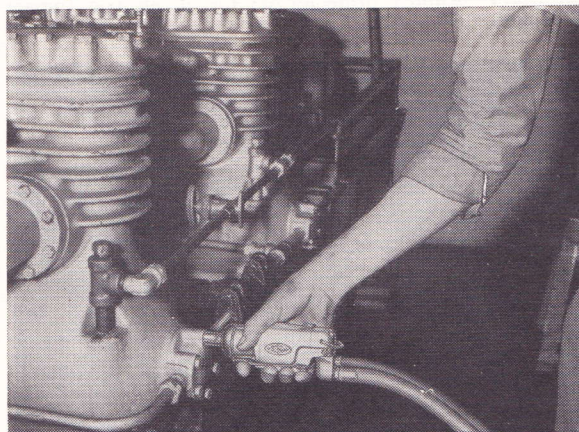
SPECIFICATIONS

	Wrench Number	
	313	314
Square Drive Size	3/8"	1/2"
Cap. Bolt Size	5/16"	3/8"
Speed, R.P.M.	9500	9500
Hose Connections	1/4" PT	1/4" PT
Length	6 1/2"	6 1/2"
Side to Center	31/32"	31/32"
Average Air Consumption	2 1/2 cu. ft.	2 3/4 cu. ft.
Net Weight — Tool Only	2 1/2 lbs.	2 3/4 lbs.

Designed to operate at 90 lbs. per square inch.

References

Adaptors Page 24 Attachments Page 23-24
Air Controls Page 25 Exhaust Hose Page 25
Air Hose Page 25 Lubrication Page 1
Sockets Page 22



No. 313 can be used for Small Engine and Compressor assembly and disassembly. Here being used on final assembly of Air Compressor.

TOOLS

**WORLD
OVER**



ELECTRIC IMPACT WRENCH

5/8" - 1/2" - 3/8" SQUARE DRIVE

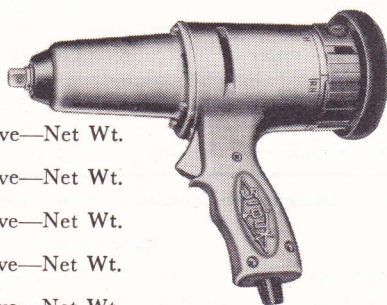
MAKES TOUGH JOBS EASY

This revolutionary action electric Impact Wrench is unexcelled in performance. It is faster and better, proven by use, research tested, Torque certified. Has equal power right or left. A size and Torque power for every use for production or shop.

SPECIFICATIONS

Wrench Number	323	333	325	330	335
Drive Square Size	3/8"	1/2"	1/2"	1/2"	5/8"
Cap. Bolt Size	7/16"	7/16"	5/8"	5/8"	5/8"
Torque Ft. Lbs.	*75	*75	*125	*175	*175
Length	9 1/2"	9 5/8"	11 1/8"	11 1/2"	11 1/2"
Side to Center	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Free Speed R.P.M.	1750	1750	2000	2000	2000
Impacts Per Min.	1750	1750	2000	2000	2000
Volts - AC-DC	115	115	115	115	115
Amperes	2.7	2.7	3.5	4.5	4.5

* In 10 Seconds of operation right or left.



No. 323—3/8" Drive—Net Wt. 5 lb. 14 oz.

No. 325—1/2" Drive—Net Wt. 7 lb. 6 oz.

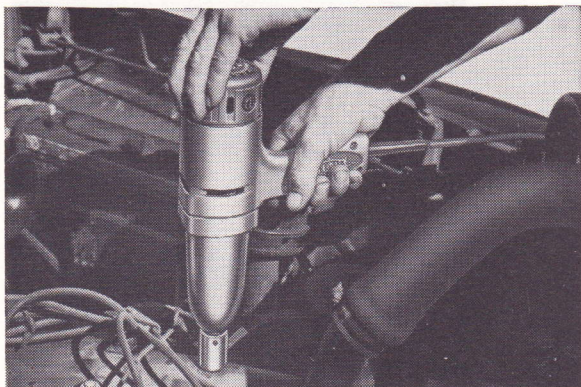
No. 330—1/2" Drive—Net Wt. 7 lb. 14 oz.

No. 333—1/2" Drive—Net Wt. 5 lb. 14 oz.

No. 335—5/8" Drive—Net Wt. 7 lbs. 14 oz.

No. 14278—Reversing cap rubber protector standard equipment on above units.

No. 14279—Rubber protector set for all electric Impact Wrenches.



No. 330 shown in use on general automotive engine maintenance.



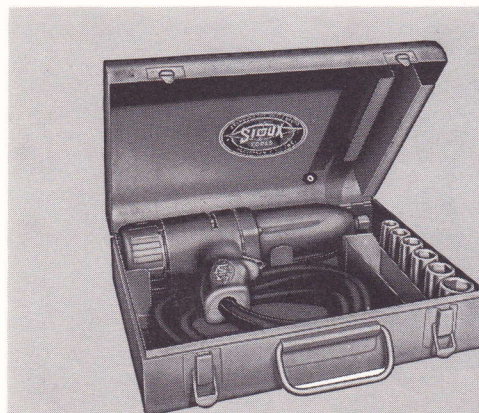
REVERSE CAP SWITCH LOCK

Prevents Reversing With Current On, and Eliminates Burning the Commutator-Brushes and Switch Contacts.

ELECTRIC IMPACT WRENCH SETS

No. 323-S—Includes 1-No. 323 Impact Wrench and 1-No. 3600 Socket Set in Cardboard carton.

No. 323-C—Includes 1-No. 323 Impact Wrench, 1-No. 3600 Socket Set in No. 328 Metal Carrying Case.



No. 325-S—Includes 1-No. 325 Impact Wrench and 1-No. 4601 Socket Set in Cardboard carton.

No. 325-C—Includes 1-No. 325 Impact Wrench, 1-No. 4601 Socket Set in No. 328 Metal Carrying Case.

No. 330-S—Includes 1-No. 330 Impact Wrench and 1-No. 4601 Socket Set in Cardboard carton.

No. 330-C—Includes 1-No. 330 Impact Wrench, 1-No. 4601 Socket Set in No. 328 Metal Carrying Case.

No. 333-S—Includes 1-No. 333 Impact Wrench and 1-No. 4600 Socket Set in Cardboard carton.

No. 333-C—Includes 1-No. 333 Impact Wrench, 1-No. 4600 Socket Set in No. 328 Metal Carrying Case.

No. 335-S—Includes 1-No. 335 Impact Wrench and 1-No. 5600 Socket Set in Cardboard carton.

No. 335-C—Includes 1-No. 335 Impact Wrench, 1-No. 5600 Socket Set in No. 328 Metal Carrying Case.

No. 328—Metal Carrying Case (only) 12" x 9 3/4" x 2 1/2" deep.



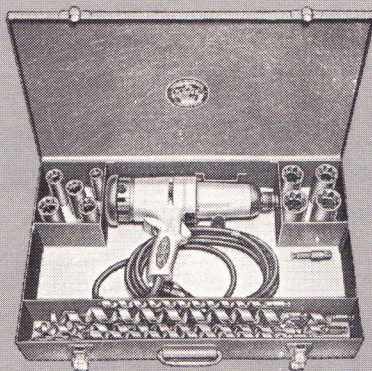
STANDARD
THE

NO. 336 LINEMAN'S IMPACT WRENCH



This proven and thoroughly tested Sioux Electric Impact Wrench has now been applied to another labor-saving, convenient application where safety and adaptability are essential. Has all the power you need to do the job fast—with a minimum of labor. Has equal power right or left, and reverse cap switch lock that prevents reversing with current on.

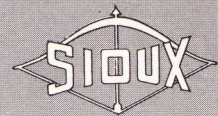
NO. 336C LINEMAN'S ALL PURPOSE IMPACT WRENCH KIT



With the Sioux 336C Kit, linemen are frankly pleased by its versatility in drilling holes in utility poles, cross arms and other special drilling applications in wood, where weight, size and torque transmitted to the operation is of prime importance. To convert to a nut runner, simply insert the adaptor into chuck and snap on socket and run. Kit consists of the following:

- 1—No. 336—Electric Impact Wrench 7/16" Quick Change Chuck
- 1—No. 337—Metal Carrying Case
- 1—No. 4818EL—9/16" Double Square, 3 1/4" Long
- 1—No. 4820EL—5/8" Double Square, 3 1/4" Long
- 1—No. 4822EL—11/16" Double Square, 3 1/2" Long
- 1—No. 4824EL—3/4" Double Square, 3 1/2" Long
- 1—No. 4826EL—13/16" Double Square, 3 1/2" Long
- 1—No. 4828EL—7/8" Double Square, 3 1/2" Long
- 1—No. 4830EL—15/16" Double Square, 3 1/2" Long
- 1—No. 4832EL—1" Double Square, 3 1/2" Long
- 1—No. 4834EL—1 1/16" Double Square, 3 1/2" Long
- 1—No. 36800—1/2" Bit 10" Long
- 1—No. 36801—9/16" Bit 10" Long
- 1—No. 36802—11/16" Bit 12" Long
- 1—No. 36803—13/16" Bit 12" Long
- 1—No. 36804—1 1/16" Bit 12" Long
- 1—No. 36805—9/16" Bit 18" Long
- 1—No. 36806—11/16" Bit 18" Long
- 1—No. 36807—13/16" Bit 18" Long
- 1—No. 36808—1 1/16" Bit 18" Long
- 1—No. 36628—7/16" Hex to 1/2" Square Adaptor

ELECTRIC IMPACT WRENCH



7/16" HEX DRIVE

FOR NUT RUNNING AND DRILLING

The Sioux No. 336 is designed to give the lineman a high-efficiency, versatile tool that can save up to 90% of nut running time, and in addition makes wood drilling on utility poles safe and fast. Has plenty of torque with less vibration.

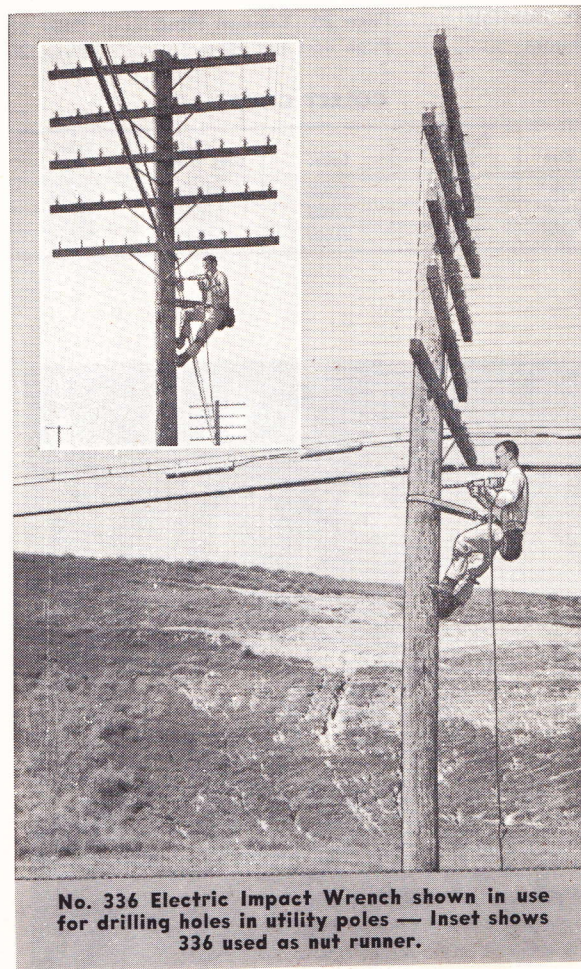
5 IN. LONG SOCKETS AVAILABLE

- 4832EXL—1" Double Square
- 4834EXL—1 1/16" Double Square
- 4836EXL—1 1/8" Double Square
- 4838EXL—1 3/16" Double Square

SPECIFICATIONS

Cat. No.	Drive Hex	Cap. Bolt	Torque	Wood Bit Size	Free Speed R.P.M.	Volt	Amp
336	7/16"	5/8"	*175	1 1/16"	2000	115	4.5

*In 10 seconds of operation right or left



No. 336 Electric Impact Wrench shown in use for drilling holes in utility poles — Inset shows 336 used as nut runner.

TOOLS

WORLD
OVER



AIR DRILL 1/4 INCH

POWER AND VERSATILITY

The Sioux P-1310 Air Drill meets the most exacting demands for fast, efficient production, yet is adaptable to any job where a drill is required. It has stamina and rugged power for smooth performance. Convenience and ease of operation are assured by the simple pistol grip design and comfortable instant reacting trigger switch. You get much more when you choose a Sioux.

SPECIFICATIONS

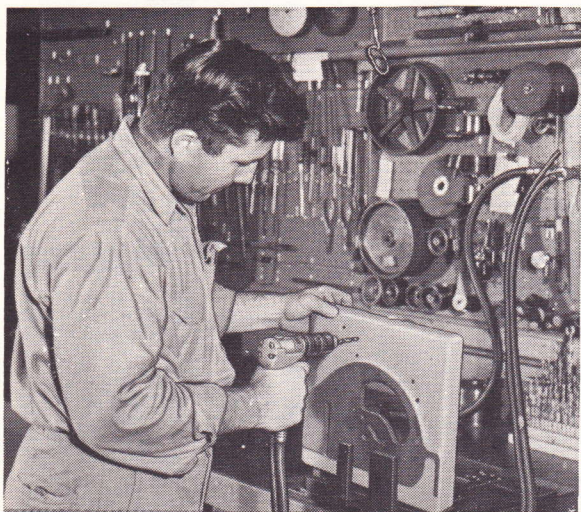
Unit No.	P-1310
Handle	Pistol
Recommended Air Pressure	90 P.S.I.
Chuck Size	1/4"
Spindle Thread Size	3/8"-24
R.P.M.	2200
Hose Connections	1/4" PT
Length	6 3/4"
Net Weight Tool Only	2.7 lbs.

References

Air Controls	Page 25	Exhaust Hose	Page 25
Chucks	Page 40	Air Hose	Page 25

COLLET CHUCK

Size	Complete Chuck	Collet	Collet Body & Nut	Collet Nut
1/8"	21090	21089	21086	21093
3/16"	21091	21088	21086	21093
1/4"	21092	21087	21086	21093



P-1310 Air Drill shown in use for general purpose drilling.



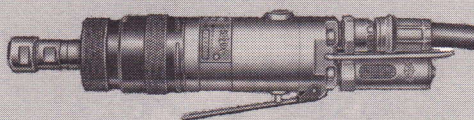
NO. P-1310
PISTOL GRIP AIR
DRILL

Sioux, the originator of the closed air system for air tools, now makes this same efficient system available in production air drills. This makes it possible to exhaust the air away from the work through an exhaust hose or diffuser deflector as desired.

The Sioux Air Drill has a built-in speed adjustment and oil reservoir; for best performance we recommend the Air Tool Control Unit No. 1345 installed in the air line.

The unit comes with a 6 ft. length of 5/16" exhaust hose, 8 ft. leader hose, No. 2305 deflecting silencer and chuck guard as standard equipment.

Recommended air pressure90 P.S.I.



NO. L-1940

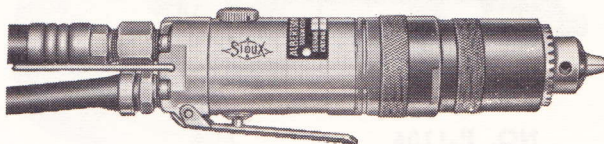
The Sioux High Speed Grinder and Drill is available with the same interchangeability of parts as the entire P & L series. The unit comes with a 6 ft. length of 5/16" exhaust hose, 8 ft. leader hose, No. 2305 deflecting silencer and chuck guard as standard equipment. This tool has proven very successful with the use of small mounted rotary files and small mounted grinding wheels. Small mounted wire brushes can also be used for special cleaning and wire brushing applications. The reversible unit, No. L-2910, 14000 R.P.M., is recommended for wire brushing in order to get maximum brush life.

SPECIFICATIONS

Unit No.	L-1940
Handle	Lever Type
Recommended Air Pressure	90 P.S.I.
Chuck Size	1/4"
Spindle Thread Size	3/8" - 24
R.P.M.	18,000
Hose Connections	1/4" PT
Length	6 3/4"
Net Weight Tool Only	2 Lbs.



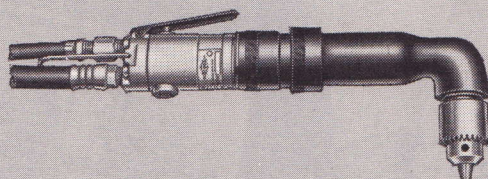
STANDARD
THE



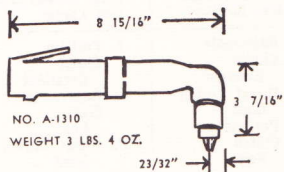
LEVER AIR DRILL NO. L-1310

No. L-1310 Lever Air Drill, designed for assembly line production work, has all the quality features of the P-1310. Sioux Engineering has produced this air drill of superior endurance, free of trouble, well balanced, and easy to operate. All around usefulness on the widest range of jobs make this sturdy dependable air drill a favorite of production men. Air Drills may be selected in any speed from 300 R.P.M. to 18000 R.P.M. with 1/4, 5/16 or 3/8" chucks; see catalog numbering index chart on page 14.

NO. A-1310 ANGLE AIR DRILL



NO. A-1310 ANGLE AIR DRILL



Due to the compactness of many assembly operations a line of Air Drills is available with 90° angle drive

for working in blind spots and applications with limited access. These tools have all of the exclusive features of the in-line or straight tools. See catalog numbering index chart on page 14.

References

Air Controls	Page 25	Exhaust Hose	Page 25
Chucks	Page 40	Leader Hose	Page 25
Grease Gun for Angle Tool	Page 25		

AIR DRILLS



Modern design features of Sioux Air Tools include a remote exhaust system which carries air and lubricant away from the work and the operator, built-in speed adjustment and oil reservoir. Quiet clean operation with certified power that leaves no guesswork in their use. Simplicity of design and high precision of manufacture makes the Sioux the most perfected tools of their size and type.

SPECIFICATIONS

Unit No.	L-1310
Handle	Lever Type
Recommended Air Pressure	90 P.S.I.
Chuck Size	1/4"
R.P.M.	2200
Hose Connections	1/4" PT
Length	6 3/4"
Side to Center	23/32"
H.P., Max.	.33
Net Weight Tool Only	2.2 lbs.
Spindle Thread Size	3/8"-24

For best performance we recommend the Air Control Unit No. 1345 installed in the air line and the use of a SIOUX No. 2300 Balancer. The unit comes with a 6 foot length of 5/16" exhaust hose, 8 foot leader hose and No. 2305 deflecting silencer as standard equipment. Recommend air pressure 90 P.S.I.



No. A-1310 shown in use drilling in close quarters.



AIR NUT RUNNER

No. P-1106 Pistol Grip Production Air Nut Runner is another in the Sioux family of air tools designed for complete versatility. Available in three different clutches and speed ranges from 300 RPM to 2200 RPM and is available with 1/4" and 3/8" square drive. Interchangeable parts make this tool adaptable to production needs in many combinations. See page 14 for other combinations.

SPECIFICATIONS

Unit No.	P-1106
Handle	Pistol
Recommended Air Pressure	90 P.S.I.
Drive Square Size	1/4"
Bolt Size	5/16"
R.P.M.	800
Hose Connections	1/4"
Length	10 1/8"
Side to Center	13/16"
H. P. Max.	.33
Net Weight Tool Only	3.3 lbs.

References

Air Controls	Page 25	Leader Hose	Page 25
Exhaust Hose	Page 25	Sockets	Page 22



P-1106 in use for production assembly



**NO. P-1106
SIOUX AIR NUT
RUNNER**

The No. P-1106 SIOUX Production Air Nut Runner is a non-reversing, adjustable clutch unit, and has a built-in speed adjustment and oil reservoir. For best performance we recommend the Air Control Unit No. 1345 installed in the air line. The unit comes with a 6 foot length of 5/16" exhaust hose, 8 foot leader hose and No. 2305 deflecting silencer as standard equipment. Recommend air pressure 90 P.S.I.



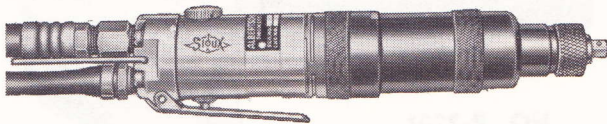
**No. A-2102 Angle Nut Runner. Handy to
operate in confined space**

SUGGESTED CLUTCH APPLICATION

Application	Small Screws #8 And Smaller	Large Screws #9 And Larger
 Free Run Down With Sudden Solid Stop.	1. Adjustable Clutch Excellent 2. Direct Clutch Good 3. Positive Clutch Fair	1. Positive Clutch Excellent 2. Adjustable Clutch Good 3. Direct Clutch Good
 Soft Pull Up and Run Down. Soft Compression.	1. Adjustable Clutch Excellent 2. Direct Clutch Good 3. Positive Clutch Fair	1. Direct Clutch Excellent 2. Positive Clutch Good 3. Adjustable Clutch Fair
 Long Continuous Run Down Drag. Wood Screws.	1. Adjustable Clutch Excellent 2. Direct Clutch Good 3. Positive Clutch Good	1. Direct Clutch Excellent 2. Positive Clutch Good 3. Adjustable Clutch Fair



**STANDARD
THE**



NO. L-1202 NUT RUNNER

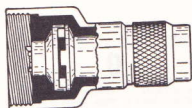
No. L-1202 Lever operated Air Nut Runner Non-Reversing Direct Clutch Unit for all operation where uniform tightness is not required for assembly line operation. Has all the stamina and rugged power of the air drill and the same built-in quality features. Make your own combination for multi-purpose tool to suit your production need. Reversible and non-reversible lever operation or pistol grip with speed ranges from 300 R.P.M. to 2200 R.P.M. and with 1/4" and 3/8" square drive. See chart on page 14 for list of combinations.

NO. A2102 ANGLE NUT RUNNER

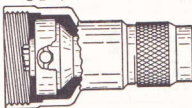


The A-2102 is a 90° Angle Nut Runner with 1/4" square drive, 600 RPM, and direct clutch for use in limited access areas.

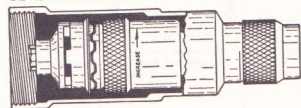
HOW TO SELECT PROPER CLUTCH



DIRECT CLUTCH has two straight jaws held apart by a spring until the operator pushes tool against screw (or nut) to be driven. Screw is turned until tool stalls or operator releases trigger. Torque output of tool is controlled by built-in control valve, or by pressure regulator in air supply line.



POSITIVE CLUTCH has two jaws with angular teeth. Jaws are held apart by a spring until forward or down pressure on tool brings clutch jaws together thereby driving screw. The amount of pressure exerted on tool controls tightness of fastener being driven. Impacting of clutch jaws gives increased power when needed. Torque also varied by use of built-in air control in the air motor.



ADJUSTABLE CLUTCH uses two sets of clutch jaws, one can be adjusted by increasing or decreasing spring tension, the other held out as in the positive clutch. Forward or down pressure applied to tool will drive fasteners to a uniform tightness every time, until torque resistance overcomes the preset tension on the adjustable jaws and disengages the clutch. Air pressure variations have little effect. Clutch setting is easily changed when desired without using tools of any kind.

AIR NUT RUNNER



Exclusive design features of Sioux Air Tools include a remote exhaust system which carries air and lubricant away from the work and operator, built in speed adjustment and oil reservoir. Quiet, clean operation with certified power that leaves no guesswork. Simplicity of design and high precision of manufacture make the Sioux the most perfected tools of their size and type.

SPECIFICATIONS

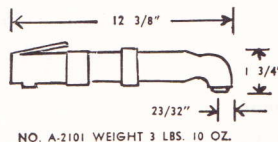
Unit No.	L-1202
Handle	Lever
Drive Square Size	1/4"
Bolt Size	1/4"
R.P.M.	1400
Hose Connection	1/4"
Length	8 9/16"
Side to Center	13/16"
H.P. Max.	.25
Net Weight Tool Only	2.5 lbs.

For best performance we recommend the Air Control Unit No. 1345 installed in the air line and the use of a SIOUX No. 2300 Balancer. The unit comes with a 6 foot length of 5/16" exhaust hose, 8 foot leader hose and No. 2305 deflecting silencer as standard equipment.

Recommended air pressure 90 P.S.I.

References

Air Controls	Page 25
Balancer	Page 26
Exhaust Hose	Page 25
Leader Hose	Page 25
Sockets	Page 22
Cat. No. Index	Page 14
Grease Gun for Angle Tool	Page 25



NO. A-2101 WEIGHT 3 LBS. 10 OZ.



L-1202 Nut Runner on small components of assembly



AIR SCREW DRIVER

No. P-2201 Pistol Grip production Air Screw Driver is a tool with true interchangeability of parts, making it possible for you to make up several hundred different combinations from which to choose. This unit has the same high quality mechanism as the air nut runner and air drill. The comfortable, easy grip design and instant reacting throttle makes this tool an easy, less-tiring unit to operate. For best performance we recommend the Air Control Unit No. 1345 installed in the air line.

SPECIFICATIONS

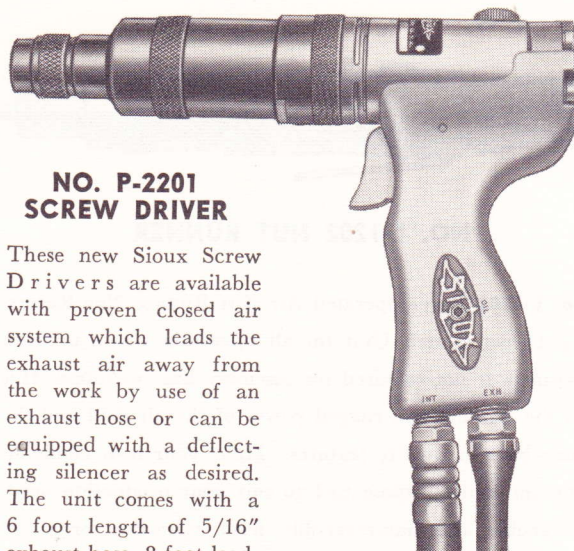
Unit No.	P-2201
Handle	Pistol
Recommended Air Pressure	90 P.S.I.
Drive Size	1/4" Hex
R.P.M.	1200
Screw Size	#6 to 1/4"
Hose Connections	1/4"
Length	8 1/2"
Side to Center	13/16"
H.P., Max.	.25
Net Weight Tool Only	2.9 lbs.

References

Air Controls	Page 25	Exhaust Hose	Page 25
Bits	Page 28	Leader Hose	Page 25



No. P-2201 in use in assembly work



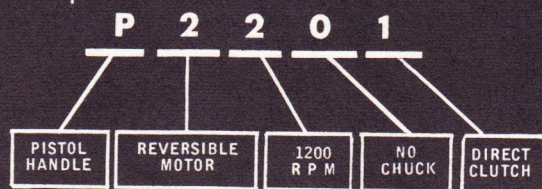
NO. P-2201 SCREW DRIVER

These new Sioux Screw Drivers are available with proven closed air system which leads the exhaust air away from the work by use of an exhaust hose or can be equipped with a deflecting silencer as desired. The unit comes with a 6 foot length of 5/16" exhaust hose, 8 foot leader hose and No. 2305 deflecting silencer as standard equipment. No. P-2201, illustrated above, is a pistol grip, reversible motor, 1200 RPM with a direct clutch. To build up other tools see chart below.

CATALOG NUMBERING INDEX

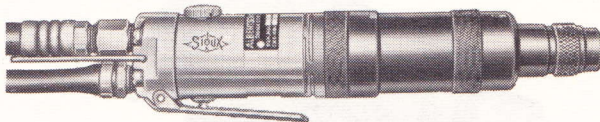
To select a tool number other than the one illustrated above. Select from each column from chart below the desired component. Build your own tool number using a didget from each column working from left to right.

Example:



**STANDARD
THE**

Handles	Air Motors	R.P.M.	Chucks	Clutches
P Ass'm. 33637 Pistol Handle	1 Ass'm. 33626 Right Hand Rotation 33878 (Grinder)	1 800 R.P.M. Non-Rev. Ass'm. 33638 Screw Dr. Nut Setter Ass'm. 33641 Drill	0 "O" Represents Omission of Chuck When Clutch Is Used	0 "O" Represents Omission of Clutch When Chuck Is Used
L Ass'm. 33636 Lever Handle	2 Ass'm. 33624 Reversible Motor 33879 (Grinder)	2 1400 R.P.M. Non-Rev. Ass'm. 33639 Screw Dr. Nut Setter Ass'm. 33642 Drill	1 Ass'm. 33681 Std. 1/4" Jacobs Ass'm. 33873 Std. 18000 R.P.M. Only	1 Ass'm. 33635 Direct Clutch 1/4" Hex Female Screw Driver
A Ass'm. 33625 90° Angle Tools Lever Handle	3 Ass'm. 33625 Left Hand Rotation (Screw Driver & Nut Runner Only)	3 2200 R.P.M. Non-Rev. Ass'm. 33640 Screw Dr. Nut Setter Ass'm. 33643 Drill	2 Ass'm. 33682 5/16" Jacobs (Optional on 2200, 1800, 1400, 1200, 800, 600, 400 & 300 R.P.M.)	2 Ass'm. 33699 Direct Clutch 1/4" Square Male Nut Runner
		4 4000 R.P.M. Non-Rev. Ass'm. 33644 Drill Only	3 Ass'm. 21037 3/8" Jacobs (Optional on 800, 600, 400 & 300 R.P.M.) Angle Tools Not Avail.	3 Ass'm. 33634 Positive Clutch 1/4" Hex Female Screw Driver Angle Tools Not Avail.
		5 400 R.P.M. Non-Rev. Ass'm. 33890 Screw Dr. Nut Setter Ass'm. 33889 Drill	4 18,000 R.P.M. Non-Rev. Ass'm. 33913 1/2" Jacobs Collet Reversible Not Avail.	4 Ass'm. 33700 Positive Clutch 1/4" Square Male Nut Runner Angle Tools Not Avail.
				5 Ass'm. 33633 Adjustable Clutch 1/4" Hex Female Screw Driver
		9 18,000 R.P.M. Non-Rev. Ass'm. 33872 Grinder		6 Ass'm. 33698 Adjustable Clutch 1/4" Square Male Nut Runner



NO. L-2205 SCREW DRIVER

No. L-2205 Air Screw Driver is a lever handle unit with a reversible motor and adjustable clutch. Quick, easy interchangeable parts convert this tool into several hundred combinations, giving the user a truly versatile tool. Convertible to any production need. See chart on page 14 for list of combinations.

For best performance we recommend the Air Control Unit No. 1345 installed in the air line and the use of a SIOUX No. 2300 Balancer. The unit comes with a 6 foot length of 5/16" exhaust hose, 8 foot leader hose and No. 2305 deflecting silencer as standard equipment.

Recommended air pressure90 P.S.I.

AIR SCREW DRIVER



Sioux Engineering has set the pace in electric tools for almost half a century. Precision, rugged durability and expert craftsmanship is the product you get in any Sioux tool you buy. Now Sioux offers you air tools that have the same controlled and tested precision as the Sioux line of electric tools.

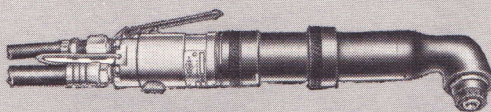
SPECIFICATIONS

Unit No.	L-2205
Handle	Lever
Recommended Air Pressure	90 P.S.I.
Drive Size	1/4" Hex
R.P.M.	1200
Screw Size	#6 to 1/4"
Hose Connections	1/4"
Length	10 1/8"
Net Weight Tool Only	2.7 lbs.

References

Air Controls	Page 25	Balancer	Page 26
Bits	Page 28	Exhaust Hose	Page 25
Grease Gun for Angle Tool	Page 25		
Leader Hose	Page 25		

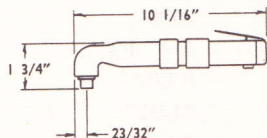
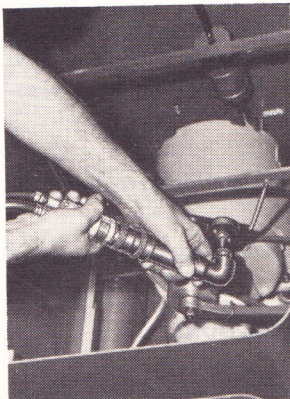
NO. A2101 ANGLE SCREW DRIVER



NO. A-2101 ANGLE SCREW DRIVER

For those hard-to-get-at, close-quarter assembly operations, a line of Angle Screw Drivers is available with a 90° angle drive, making possible production work in limited access areas. These tools have the same Sioux features as the L-2205 Air Screw Driver. Remote exhaust system which carries air and lubricant away from the work and the operator. Quiet, clean operation with certified power, simplicity of design and high quality precision manufacture.

See catalog numbering index chart on page 14.



NO. A-2102 WEIGHT 3 LBS. 10 OZ.



No. L-2205 Lever Screw Driver for fast assembly of small parts



AIR IMPACT SCREW DRIVERS

7/16" AND 1/4" HEX DRIVE

NO. 312 SPECIFICATIONS

Drive Size	7/16" Hex
Speed, RPM	5800
Hose Connections	1/4" PT
Length	7 1/8"
Side to Center	1 7/16"
Average Air Consumption	3 1/2 Cu. Ft.
Net Weight — Tool Only	5 1/2 lbs.

METAL CARRYING CASE

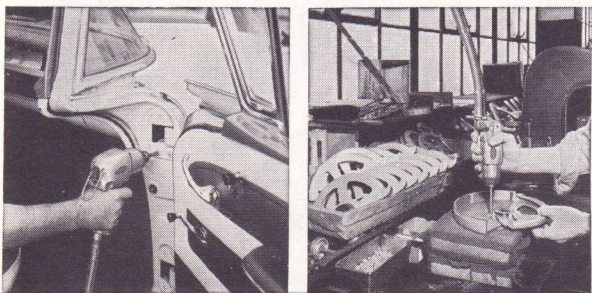


No. 328-A—Metal Carrying Case is designed for 312 unit. (EXTRA)

No. 327—Metal Carrying Case is designed for 303 unit. (EXTRA)

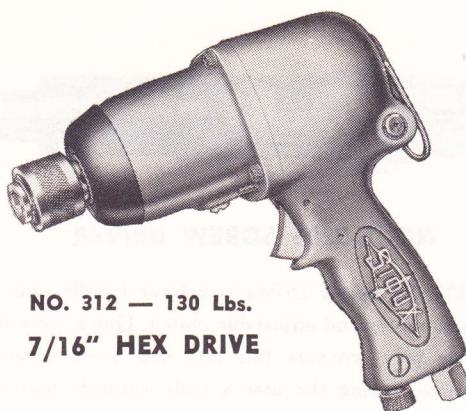
References

Air Controls	Page 25	Exhaust Hose	Page 25
Air Hose	Page 25	Leader Hose	Page 25
Attachments	Page 26	Bits	Pages 27-28



No. 312 Impact Screw Driver used on heavy duty assembly and dis-assembly.

No. 303 Impact Screw Driver being used on assembly line.



NO. 312 — 130 Lbs.

7/16" HEX DRIVE

REVERSIBLE CONTROLLED POWER REACTION BALANCED — LESS VIBRATION FEEDBACK MINIMUM OPERATOR FATIGUE

No. 312—The SIOUX Air Impact Screw Driver is a powerful production unit with 7/16" Hex Drive Quick Change Chuck built onto spindle. Suitable For: Wood Screws above No. 12; Self Tapping Screws, and Machine Screws and Nuts above 1/4" and Lag Screws above 3/16". Designed for heavier production work with the fine features of the famous SIOUX Impact Wrenches. Uses 7/16" hex. drive shanks, and 5/16" insert bits with holder No. 36018 shown on Page 26-27. 8 points of power selection.



NO. 303 — 60 Lbs.

1/4" HEX DRIVE

No. 303—1/4" Hex Drive—The 303 is an Air Impact Screw Driver. This unit is equipped with SIOUX Silent exhaust system that takes exhaust noise 6 feet from operator. Has eight point power selector that gives absolute control for any application.

Uses all 1/4" Hex Drive Shanks and Sockets shown on pages 22-26.

Unit comes equipped with 6' leader hose and 6' exhaust hose.

NO. 303 SPECIFICATIONS

Drive Size	1/4" Hex
Speed, RPM	9500
Hose Connections	1/4" PT
Length	6 1/2"
Side to Center	31/32"
Average Air Consumption	2 1/2 Cu. Ft.
Net Weight — Tool Only	2 1/2 lbs.

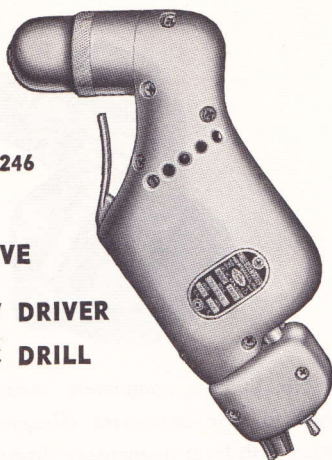


**STANDARD
THE**

NO. 242 — NO. 246

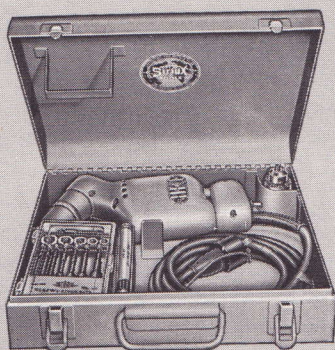
1/4" HEX DRIVE

ANGLE SCREW DRIVER AND ELECTRIC DRILL



No. 242—Angle Screw Driver with Positive Clutch. The operating pressure closes the clutch and continues to drive until the resistance is greater than the pressure. The operator controls the tightness by the amount of pressure applied. Equipped with reversing switch for driving and removing.

No. 246—Angle Screw Driver with Adjustable Clutch. For all operations where a uniform tightness is desired. The adjustable clutch screw driver operates the same as the positive clutch except the driving force is predetermined by adjusting the clutch (spring load) for the desired tightness with reversing switch.



ANGLE SCREW DRIVER SET

No. 243—Consists of the following:

- 1—No. 242 Screw Driver
- 1—No. 241 Set Bits and Sockets
- 1—No. 33206 1/4" Drill Chuck and Adaptor
- 1—Set H. S. Drills—7 sizes—1/16" to 1/4" by 32nds.
- 1—No. 328C Carrying Case

No. 260-S—Consists of the following:

- 1—No. 260 Screw Driver
- 1—No. 241 Set Bits and Sockets
- 1—No. 327 Metal Carrying Case

Units on this page include as Standard equipment, 3 wire cable and plug and No. 36529 Bit with Finder Sleeve.

References

Adaptors Page 26 Bits Page 28

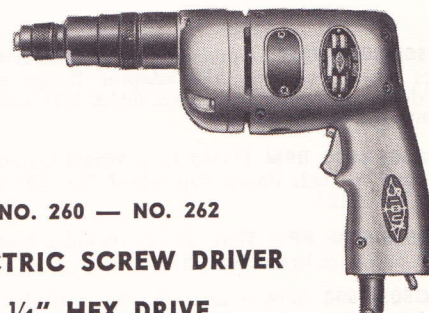
ELECTRIC SCREW DRIVERS 1/4" HEX DRIVE



NO. 260 — NO. 262

ELECTRIC SCREW DRIVER

1/4" HEX DRIVE



No. 260—Super Screw Driver with Positive Clutch. The positive clutch provides a free spindle for engaging the bit with screw.

The operating pressure closes the clutch and continues to drive until the resistance is greater than the pressure. The operator controls the tightness by the amount of pressure applied. Equipped with reversing switch for driving and removing.

No. 262—Super Screw Driver with Adjustable Clutch. For all operations where a uniform tightness is desired. Each screw is set to the same tightness regardless of the amount of hand pressure applied.

The adjustable clutch screw driver operates the same as the positive clutch except the driving force is predetermined by adjusting the clutch (spring load) for the desired tightness with reversing switch.

ABOVE UNITS AVAILABLE IN SPEED OF 950 R.P.M.

SPECIFICATIONS

Cat. No.	260-262	242-246
Drive Size	1/4" Hex	1/4" Hex
Wood Screws	No. 12 x 2"	No. 12 x 1 1/2"
Self Tapping Screws	Up to 1/4"	Up to 1/4"
Lag Screws	3/16" x 2"	3/16" x 1 1/2"
Machine Screws & Nuts	Up to 1/4"	Up to 1/4"
No Load Speed	625 R.P.M.	1650 R.P.M.
115 Volt, Universal A.C.-D.C.	2.8 Amperes	1.4 Amperes
Net Weight	4 Lb. 2 Oz.	3 1/2 Lbs.



No. 242 Angle Screw Driver being used to drive screws in automotive repair.



VERTICAL AIR GRINDERS AND SANDERS REGULAR DUTY

No. 505-6000 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 9 inch depressed center wheel No. 904X-R24 and 9 inch adjustable guard No. 2327.

No. A505-6000 RPM Flared Cup Wheel Grinder includes basic tool, 6 inch flared cup wheel No. 587 and 6 inch guard No. 2324.

No. B505-6000 RPM Wire Brush includes basic tool and 4 inch cup wire brush No. 457.

No. C505-6000 RPM 9 inch Sander includes basic tool and No. 539 sanding disc holder complete for 9 inch abrasives.

No. D505-6000 RPM Vertical Air Grinder-Basic Tool only with No. 2304 wrench.

No. 504-4500 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 9 inch depressed center wheel No. 904X-R24 and 9 inch adjustable guard No. 2327.

No. A504-4500 RPM Flared Cup Wheel Grinder includes basic tool, 6 inch flared cup wheel No. 587 and 6 inch guard No. 2324.

No. B504-4500 RPM Wire Brush includes basic tool and 6 inch cup wire brush No. 823.

No. C504-4500 RPM 9 inch Sander includes basic tool and No. 539 sanding disc holder complete for 9 inch abrasives.

No. D504-4500 RPM Vertical Air Grinder — Basic Tool only with No. 2304 wrench.

No. 507-7000 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 7 inch depressed center wheel No. 704X-R24 and 7 inch adjustable guard No. 2326.

No. A507-7000 RPM Flared Cup Wheel Grinder includes basic tool, 5 inch flared cup wheel No. 589 and 5 inch guard No. 2323.

No. C507-7000 RPM 7 inch Sander includes basic tool and No. 537 sanding disc holder complete for 7 inch abrasives.

No. D507-7000 RPM Vertical Air Grinder — Basic Tool only with No. 2304 wrench.

SPECIFICATIONS

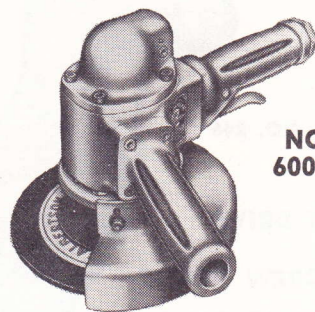
Cat. No.	Type & Size	RPM	Height	Length	Wt.
505	Vertical—9"	6000*	6 13/16"		7 1/8 lbs.
517	Horizontal—6"	6000		21"	10 lb. 5 oz.

* For 4500 RPM and 7000 RPM see description above.

Above units have 5/8"-11 thread spindle and use 1/2" hose with 1/2" PT hose connectors. Hose extra.

References

Attachments Page 29 Dep. Center Wheels Page 20
Air Controls Page 25 Straight Wheels Page 20
Hoses Page 25 Flared Cup Wheels Page 20
Couplers Page 26 Cup Wire Brushes Page 21
Grease Gun for 517 Page 25



**NO. 505
6000 RPM**

Sioux No. 505—a completely versatile production tool designed to give maximum efficiency. This tool comes equipped with lever momentary throttle as standard equipment or with thumb type throttle as optional equipment. A simple change of attachments converts this tool to a flared cup grinder, sander or a wire brush tool. The outstanding features of the 505 consist of floating rotor construction, air behind the blades for quick easy starts. Full flow throttle and light weight magnesium housing for long life and easy maneuverability.



**STANDARD
THE**

No. 517 Horizontal Air Grinder includes 6" straight wheel No. 567 and 6" guard.

Also available in 4500 RPM same equipment as above and 9000 RPM with 4" straight wheel No. 565 and 4" guard.

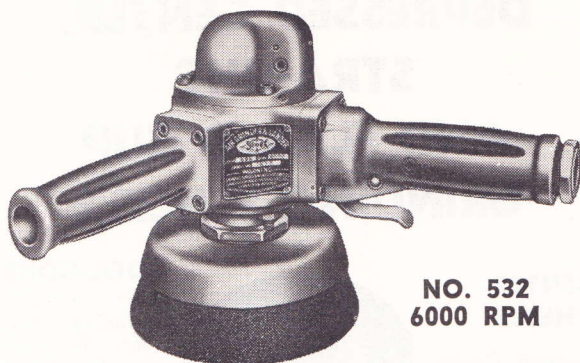
In ordering please specify RPM.

Above units come equipped with lever momentary throttle as standard equipment. Can be equipped with thumb type throttle or grip type handle as optional equipment.

Full Load Air Consumption. 48 CFM



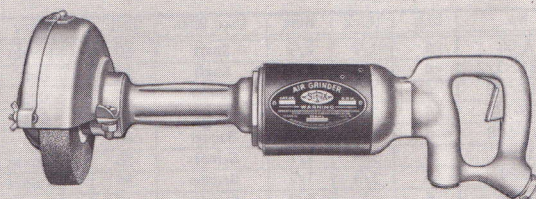
No. 505 used with flared cup wheel for grinding.



**NO. 532
6000 RPM**

Sioux No. 532—a heavy-duty Vertical Air Grinder that has the same versatility as the regular-duty No. 505 except for that extra heavy-duty grinding operation. Comes equipped with lever-momentary throttle as standard equipment or with thumb-type throttle as optional equipment. Easy, fast change of attachments converts this tool to a depressed center wheel grinder, sander or a wire brush tool. The exclusive Sioux features of the 532 consist of floating rotor construction, air behind the blades for quick starts. Full-flow throttle and light-weight magnesium housing for long life.

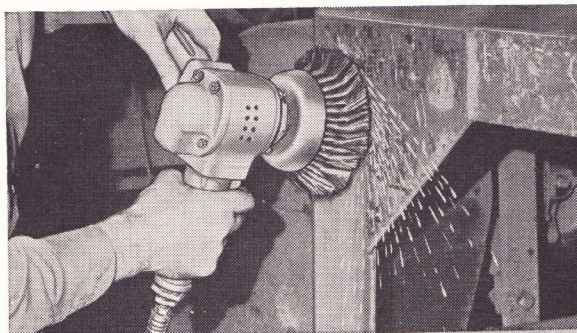
NO. 541 HORIZONTAL AIR GRINDER



No. 541 Horizontal Air Grinder includes 8" straight wheel No. 573 and 8" guard. Also available in 6000 RPM with 6" straight wheel No. 567 and 6" guard.

In ordering please specify RPM.

Above units come equipped with grip type handle as standard equipment. Can be equipped with lever momentary throttle or thumb type throttle as optional equipment. Full Load Air Consumption. 95 CFM



No. 532 with cup wire brush for heavy-duty work in scale and rust removal.

VERTICAL AIR GRINDERS AND SANDERS HEAVY DUTY



No. 532-6000 RPM Flared Cup Wheel Grinder includes basic tool, 6 inch flared cup wheel No. 587 and 6 inch guard No. 2324.

No. A532-6000 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 9 inch depressed center wheel No. 904X-R24 and 9 inch adjustable guard No. 2327.

No. C532-6000 RPM 9 inch Sander includes basic tool and No. 539 sanding disc holder complete for 9 inch abrasives.

No. D532-6000 RPM Vertical Air Grinder — Basic Tool only with No. 2304 wrench.

No. 534-4500 RPM Flared Cup Wheel Grinder includes basic tool, 6 inch flared cup wheel No. 587 and 6 inch guard No. 2324.

No. A534-4500 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 9 inch depressed center wheel No. 904X-R24 and 9 inch adjustable guard No. 2327.

No. B534-4500 RPM Wire Brush includes basic tool and 6 inch cup wire brush No. 823.

No. C534-4500 RPM 9 inch Sander includes basic tool and No. 539 sanding disc holder complete for 9 inch abrasives.

No. D534-4500 RPM Vertical Air Grinder — Basic Tool only with No. 2304 wrench.

No. 533-3500 RPM Flared Cup Wheel Grinder includes basic tool, 6 inch flared cup wheel No. 587 and 6 inch guard No. 2324.

No. A533-3500 RPM Depressed Center Wheel Grinder includes basic tool, No. 510 adaptor flange complete, 9 inch depressed center wheel No. 904X-R24 and 9 inch adjustable guard No. 2327.

No. B533-3500 RPM Wire Brush includes basic tool and 6 inch cup wire brush No. 823.

No. C533-3500 RPM 9 inch Sander includes basic tool and No. 539 sanding disc holder complete for 9 inch abrasives.

No. D533-3500 RPM Vertical Air Grinder-Basic Tool only with No. 2304 wrench.

SPECIFICATIONS

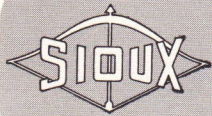
Cat. No.	Type & Size	RPM	Height	Length	Wt.
532	Vertical—6"	6,000*	7 7/8"		10 lbs.
541	Horizontal—8"	4,500		22 3/4"	14 lbs. 12 oz.

* For 4500 and 3500 RPM see description above.

Above units have 5/8"-11 thread spindle and use 3/4" hose with 1/2" PT hose connectors. Hose extra.

References

Attachments Page 29 Dep. Center Wheels Page 20
Air Controls Page 25 Straight Wheels Page 20
Hoses Page 25 Flared Cup Wheels Page 20
Couplers Page 26 Cup Wire Brushes Page 21
Grease Gun for 541 Page 25

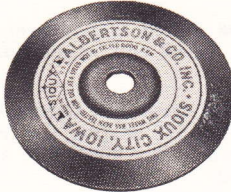


GRINDING WHEELS

DEPRESSED CENTER, STRAIGHT AND FLARED CUP GRINDING WHEELS

COOL-FLAT

Flat Grinding Surface for Heavy Duty work on steel welds, wrought iron, and stainless steel.



DEPRESSED CENTER GRINDING WHEELS

Sioux Reinforced Depressed Center Wheels have been developed for the fastest economical stock removal on all metals. Rigid Depressed Center Wheels are lighter and more maneuverable than flared cup wheels.



COOL-CONE

15° Angle Grinding Surface for extremely heavy duty work on steel welds, wrought iron and stainless steel.

CAT. NO.	Grade*	Grit†	Size	Shape†	Hole Size	Thickness	Abrasive
702X	R or U	24-36-50	7"	0	7/8"	1/8 "	Alum. Oxide
703X	R or U	16-24-36-50	7"	0	7/8"	3/16"	Alum. Oxide
704X	R or U	16-24-36-50	7"	0	7/8"	1/4 "	Alum. Oxide
706X	R or U	16-24-36-50	7"	0	7/8"	3/8 "	Alum. Oxide
902X	R or U	24-36-50	9"	0	7/8"	1/8 "	Alum. Oxide
903X	R or U	16-24-36-50	9"	0	7/8"	3/16"	Alum. Oxide
904X	R or U	16-24-36-50	9"	0	7/8"	1/4 "	Alum. Oxide
906X	R or U	16-24-36-50	9"	0	7/8"	3/8 "	Alum. Oxide
754X	R or U	24 only	7"	5	7/8"	1/4 "	Alum. Oxide
954X	R or U	24 only	9"	5	7/8"	1/4 "	Alum. Oxide

† 0 Indicates Cool-Flat 5 Indicates Cool-Cone

* Above depressed center wheels when suffixed with "R" indicates you desire a fast cutting disc. When suffixed with "U" indicates you desire longer wheel life. Example: 702X-R or 702X-U.

† In ordering, please indicate Grit by adding Grit Number after the suffix above. Example: 702X-R16.

SAFETY—Know and observe the following rules of safety as no grinding wheel even when reinforced is unbreakable:

1. Operate within recommended speed
2. Use safety guard
3. Back-up wheel with proper flange

STRAIGHT WHEELS FOR HORIZONTAL AIR GRINDERS

Cat. No.	Application	Used On	Speed	Dia.	Thick	Hole	Grit
565	A†	517	9000	4"	1"	5/8"	Coarse
566		517	6000				Medium
567		517	4500				Coarse
568	A†	541	6000	6"	1"	5/8"	Medium
569		517	9000				Coarse
570		517	6000				Medium
571	B¶	517	6000	6"	1"	5/8"	Coarse
572		517	4500				Medium
573		541	6000				Coarse
574	A†	541	4250	8"	1"	5/8"	Medium
575		541	4250				Coarse
576		541	4250				Medium
1189	A†	1190	4750	5"	3/4"	1/2"	Medium
1194	A†	1195	4250	6"	1"	5/8"	Medium

OTHER GRINDING WHEELS

No.	Dia.	Thick	Hole	Used With	Grit	Shape
A-50	4	1/2	1/2	Shaft	60	Straight
817-1/2	4	3/4	1/2	Shaft	36	Cup
817-5/8	4	3/4	5/8	Sander	36	Cup
818-1/2	4	3/4	1/2	Shaft	60	Cup
818-5/8	4	3/4	5/8	Sander	60	Cup
1184	4	3/4	1/2	Grinder	36	Straight
1189	5	3/4	1/2	Grinder	36	Straight
1194	6	1	5/8	Grinder	36	Straight
1869A	6	1/2	1/2	Grinder	36	Straight
1869B	6	1/2	1/2	Grinder	60	Straight
2006	6	3/4	1/2	Grinder	36	Straight
2007	6	3/4	1/2	Grinder	46	Straight
2009	6	3/4	1/2	Grinder	60	Straight
2027	8	1	5/8	Grinder	36	Straight
2028	8	1	5/8	Grinder	46	Straight
2036	7	1	5/8	Grinder	36	Straight
2037	7	1	5/8	Grinder	46	Straight
2041	7	3/4	1/2	Grinder	36	Straight
2042	7	3/4	1/2	Grinder	46	Straight
2051	10	1	3/4	Grinder	46	Straight
2052	10	1	3/4	Grinder	24	Straight

FLARED CUP GRINDING WHEELS — INTEGRALGUARD

Cat. No.	Application	Used On & Speed		Size	Thread Size	Rim	Back	Grit
587	A†	532 - 6000 RPM 534 - 4500 RPM 533 - 3500 RPM	A505 - 6000 RPM A504 - 4500 RPM	6" x 4 3/4" x 2"	5/8"-11	1"	3/4"	Coarse
588	A†	532 - 6000 RPM 534 - 4500 RPM 533 - 3500 RPM	A505 - 6000 RPM A504 - 4500 RPM	6" x 4 3/4" x 2"	5/8"-11	1"	3/4"	Medium
589	A†	A507 - 7000 RPM		5" x 3 3/4" x 2"	5/8"-11	1"	3/4"	Coarse
591	A†	A507 - 7000 RPM		5" x 3 3/4" x 2"	5/8"-11	1"	3/4"	Medium
592	B¶	532 - 6000 RPM 534 - 4500 RPM 533 - 3500 RPM	A505 - 6000 RPM A504 - 4500 RPM	6" x 4 3/4" x 2"	5/8"-11	1"	3/4"	Coarse
593	B¶	532 - 6000 RPM 534 - 4500 RPM 533 - 3500 RPM	A505 - 6000 RPM A504 - 4500 RPM	6" x 4 3/4" x 2"	5/8"-11	1"	3/4"	Medium
594	B¶	A507 - 7000 RPM		5" x 3 3/4" x 2"	5/8"-11	1"	3/4"	Coarse
596	B¶	A507 - 7000 RPM		5" x 3 3/4" x 2"	5/8"-11	1"	3/8"	Medium

† Steel, Welds, Snagging and Annealed Malleable Iron

¶ Cast Iron, Unannealed Malleable Iron, Concrete, Terrazo, Brass, Bronze, and Non-Ferrous Metals



STANDARD
THE

- MAXIMUM WIRE BRUSHING ENDS
- SPECIAL BRUSHING WIRE • EVEN TRIM
- PERFECT BALANCE • WIDE FACE

Designed for heavy duty, these wheels make short work of innumerable cleaning, removing, deburring, descaling, roughing, buffing and polishing jobs.

Packed one to a box

Cat. No.	Dia.	Width	Wire Size	Std. Arbor Hole	Suggested Use
449	4"	1"	.012	1/2"	Tire Buffing
451	6"	1"	.014	1/2"	General Buffing
451A	6"	1"	.012	1/2"	Tube Buffing
452	8"	1 1/2"	.012	5/8"	General Work
453	10"	2"	.012	3/4"	General Work
454	12"	2"	.012	1 1/4"	General Work
455	7"	1"	.014	5/8"	General Work

Packed one to a box

Cat. No.	Dia.	Width	Wire Size	Standard Arbor Hole
443	4"	1/4"	.005	1/2"
444	4"	3/8"	.010	1/2"
446	6"	3/8"	.012	1/2"
446-5/8	6"	3/8"	.012	5/8"
446-2	6"	3/4"	.012	1/2"

Used With

No. 446-2—Same as No. 446 except packed 2 to a box.

Adaptor No. 419.....	1/2"	Hole	Adaptor No. 428.....	1 3/8"	Hole
Adaptor No. 422.....	5/8"	Hole	Adaptor No. 429.....	1 1/2"	Hole
Adaptor No. 423.....	3/4"	Hole			
Adaptor No. 424.....	7/8"	Hole			
Adaptor No. 425.....	1"	Hole			
Adaptor No. 426.....	1 1/8"	Hole			
Adaptor No. 427.....	1 1/4"	Hole			

For No. 449

Arbor No. 420.....	3/8"	Hole
Arbor No. 421.....	1/2"	Hole
Arbor No. 421A.....	5/8"	Hole

For No. 449

Arbor	No. 420	.....	3/8"	Hole
Arbor	No. 421	.....	1/2"	Hole
Arbor	No. 421A	.....	5/8"	Hole

High brush flexibility, for cleaning heavy scale, rubber deposits, welding preparation.

Packed one to a box

Cat. No.	Size Dia. & Width	Wire Size	Arbor Hole
447	6" x 1 1/2"	.014	1/2"
448	4" x 1 1/2"	.014	1/2"
456	4" x 1"	.012	1/2"
458	6" x 1 1/2"	.012	5/8"
459	6" x 1 1/2"	.014	5/8"
460	7" x 5/8"	.012	5/8"
461	8" x 5/8"	.012	5/8"

Designed for SIOUX valve cleaner. Knotted type.

Packed one to a box

No.	Size Dia.	Arbor Hole	Wire Size
462 Quick Change	6"	1"	.016
463 Quick Change	7"	1"	.016
464 Quick Change	8"	1"	.016
*465 Quick Change	6"	1"	.014
*466 Quick Change	6"	1"	.012

* Nos. 465 and 466 — Same Type as Cat. No. 451 but with Keyway Arbor as illustrated above.

These torque or cup shape brushes are for body repair, removing paint, scale or corrosion, cleaning welded joints, etc. Used with Sioux portable tools, the broad brushing surface cleans large areas in less time.

Packed one to a box

Cat. No.	Size Dia.	Wire Size	Standard Arbor
*457	3 1/2"	.020	5/8" 11 Thread
823	5 3/4"	.020	5/8" 11 Thread
829	3 1/2"	.020	5/8" 11 Thread
833	5 3/4"	.014	5/8" 11 Thread

Use No. 34324 3/8" Thread Bushing 5/8"-11 Thread to 3/8"-16 Thread for 3/8" Spindles.

* Knot Type.



IMPACT WRENCH SOCKETS

SOCKET SETS



SIoux SOCKET NUMBERING SYSTEM

First Figure: Of 4 digit number is drive size in 1/8 inches. (example, 4 = 4/8 or 1/2")

Second Figure: Is type of socket opening (example, 4 = square, 6 = hex, 8 = double square)

Third and Fourth Figures: Are socket opening size in 32nds of inch. (example, 24 = 24/32 or 3/4")

Suffix "L" is long type socket. Suffix "M" for magnetic type socket.

No. 3600—Set of 6 Sockets, 3/8" Square Drive. Includes 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", in Metal Holder.

No. 4600—Set of 6 Sockets, 1/2" Square Drive. Includes 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", in Metal Holder.

No. 4601—Set of 6 Sockets, 1/2" Square Drive. Includes 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", in Metal Holder.

No. 5600—Set of 6 Sockets, 5/8" Square Drive. Includes 11/16", 3/4", 13/16", 7/8", 15/16", 1", in Metal Holder.

Size Across Flats	1/4"	3/8"			1/2"				5/8"	
	6 Pt. Hex. Regular	6 Pt. Hex. Regular	6 Pt. Hex. Long	8 Pt. Dbl. Square	6 Pt. Hex. Regular	6 Pt. Hex. Long	8 Pt. Dbl. Square	6 Pt. Hex. Magnetic	6 Pt. Hex. Regular	8 Pt. Dbl. Square
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1/4"	2608									
9/32"	2609									
5/16"	2610	3610	3610L	3810				4610M		
11/32"	2611	3611						4611M		
3/8"	2612	3612	3612L	3812	4612	4612L	4812	4612M		
7/16"	2614	3614	3614L	3814	4614	4614L	4814	4614M		
1/2"	2616	3616	3616L	3816	4616	4616L	4816	4616M	5616	
9/16"		3618	3618L	3818	4618	4618L	4818	4618M	5618	5818
5/8"		3620	3620L	3820	4620	4620L	4820		5620	5820
11/16"		3622	3622L		4622	4622L	4822		5622	5822
3/4"		3624	3624L		4624	4624L	4824		5624	5824
13/16"					4626	4626L	4826		5626	5826
7/8"					4628	4628L	4828		5628	5828
15/16"					4630	4630L	4830		5630	5830
1"					4632	4632L	4832		5632	5832
1 1/16"					4634				5634	5834
1 1/8"					4636				5636	5836
1 3/16"					4638					
1 1/4"					4640				5640	
1 5/16"									5642	
1 3/8"									5644	
1 7/16"									5646	
1 1/2"									5648	

Size Across Flats	3/4"				1"			
	6 Pt. Hex. Regular	6 Pt. Hex. Long	6 Pt. Hex. Thin Wall	4 Pt. Sq. or 8 Pt. Dbl. Sq.	6 Pt. Hex. Regular	6 Pt. Hex. Long	6 Pt. Hex. Thin Wall	4 Pt. Sq. or 8 Pt. Dbl. Sq.
	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
5/8"	6620	6620L		6420				
11/16"	6622	6622L						
3/4"	6624	6624L		6424	8624			8424
13/16"	6626	6626L		6826*	8626			8426
7/8"	6628	6628L	6628TW	6828	8628	8628L	8628TW	8428
15/16"	6630	6630L	6630TW	6830	8630	8630L	8630TW	8430
1"	6632	6632L	6632TW	6832	8632	8632L	8632TW	8432
1 1/16"	6634	6634L	6634TW	6834	8634	8634L	8634TW	8434
1 1/8"	6636	6636L	6636TW	6836	8636	8636L	8636TW	8436
1 3/16"	6638	6638L		6838	8638	8638L		8838
1 1/4"	6640	6640L	6640TW	6840	8640	8640L	8640TW	8840
1 5/16"	6642	6642L		6842	8642	8642L		8842
1 3/8"	6644				8644	8644L		8844
1 7/16"	6646	6646L		6846	8646	8646L		8846
1 1/2"	6648*	6648L*			8648	8648L		8848
1 9/16"					8650	8650L		8850
1 5/8"	6652	6652L			8652	8652L		8852
1 11/16"	6654				8654	8654L		8854
1 3/4"					8656	8656L		8856
1 13/16"					8658	8658L		8858
1 7/8"					8660	8660L		8860
1 15/16"					8662	8662L		8862
2"					8664	8664L		8864

*Can be used for servicing standard Budd wheels

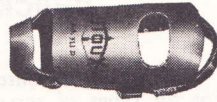
Pins and "O" Rings Required for 6 and 8 Series Sockets Page 21



STANDARD
THE

LEATHER JACKETS

No. 311D — Leather Jacket for 303-313-314 Air Units.



No. 311 — Leather Jacket. Fits Nos. 315, 316, 317 and 318 Air Impact Wrenches and No. 312 Air Screw Driver.

No. 311A — Leather Jacket. Same as No. 311. Fits Nos. 320 and 322 Air Impact Wrenches.

SOCKETS FOR BUDD WHEELS



No. 6426BW



No. 6426BWL



No. 6426B

No. 6426B — Budd Wheel Special or 3/4" Square Drive. 13/16" Square Socket, 4" Long.

No. 8426B — Same as No. 6426B except for 1" Square Drive.

No. 6426BWL — Budd Wheel Combination Special or 3/4" Square Drive. 13/16" Square and 1 1/2" Hex Openings, 7 1/2" Long.

No. 8426BWL — Same as No. 6426BWL except for 1" Square Drive.

No. 6426BW — Budd Wheel Combination Special or 3/4" Square Drive. 13/16" Square and 1 1/2" Hex Openings, 4" Long.

No. 8426BW — Same as No. 6426BW except for 1" Square Drive.

RETAINER PINS AND "O" RINGS FOR 6 & 8 SERIES SOCKETS



"O" Rings are specially designed for resistance to oil and grease. Retainer Pins are made of selected steel. Retainer Pins and "O" Rings are packaged separately.

No. 34663 — Retainer Pin, for 3/4" drive; sockets No. 6620 through No. 6638. No. 6826 through No. 6830. No. 6420 through No. 6426, No. 6620L through No. 6638L, and No. 6426B.

No. 34664 — Retainer Pin, for 3/4" drive; sockets No. 6640 through No. 6654. No. 6640L through No. 6652L. No. 6832 through No. 6846, and No. 6426BWL, also all extensions and adaptors, except Nos. 36064 and 36065.

No. 34665 — Retainer Pin, for all 1" square drive sockets and No. 6426BW 3/4" drive only. Requires "O" ring No. 14319.

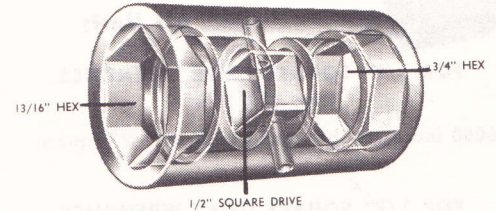
No. 14317 — O Ring, for No. 36064 and No. 36065 Socket Adaptors.

No. 34911 — Retainer Pin, for No. 36064 and 36065 Socket Adaptors.

No. 14318 — O Ring, for all 3/4" square drive sockets except No. 6426BW.

No. 14319 — O Ring, for 1" square drive sockets and No. 6426BW 3/4" drive. Requires No. 34655 Retainer Pin.

AIR WRENCH ATTACHMENTS



No. 4624-26 — 2-way Socket 1/2" Square Drive. 3/4" hex opening on one end and 13/16" hex on other end.

EXTENSION BAR



Snaps directly on the square of Impact Wrench

Cat. No.	Female Square	Male Square	Length
36072	3/8"	3/8"	3"
36075	3/8"	3/8"	6"
36070	1/2"	1/2"	5"
36071	1/2"	1/2"	10"
36073	5/8"	5/8"	6"
36074	5/8"	5/8"	10"
36078	3/4"	3/4"	7"
36079	1"	1"	7"

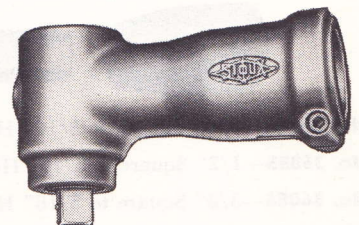
UNIVERSAL JOINT



Snaps directly on the square of Impact Wrench

Cat. No.	Female Square	Male Square
36160	3/8"	3/8"
36080	1/2"	1/2"
36082	5/8"	5/8"
36162	3/4"	3/4"
36163	1"	1"

ANGLE ATTACHMENT FOR WRENCHES



For close work that cannot be handled with the standard Impact Wrench. Clamps onto nose of Wrench in place of rubber protector.

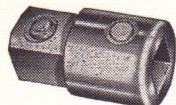
Angle Att. Cat. No.	For Wrench No.	Female Sq.	Male Sq.
2330	313-323-473	3/8"	3/8"
2331	314-333-474	1/2"	1/2"
2332	315-316-325-330	1/2"	1/2"
2333	317-318-335	5/8"	5/8"
2334	320	3/4"	3/4"
2335	322-482	1"	1"

TOOLS

WORLD
OVER



IMPACT WRENCH ATTACHMENTS



SOCKET ADAPTORS

For All Units

FOR 3/8" SQUARE DRIVE WRENCHES
No. 313, 323

No. 36058 increases the square 3/8" to 1/2" square.

FOR 1/2" SQUARE DRIVE WRENCHES
No. 314, 315, 316, 325, 330, 333

No. 36059 decreases the square 1/2" to 3/8" square.

No. 36060 increases the square 1/2" to 5/8" square.

No. 36061 increases the square 1/2" to 3/4" square.

FOR 5/8" SQUARE DRIVE WRENCHES
No. 317, 318, 335

No. 36062 decreases the square 5/8" to 1/2" square.

No. 36063 increases the square 5/8" to 3/4" square.

FOR 3/4" SQUARE DRIVE WRENCHES
No. 320

No. 36064 decreases the square 3/4" to 1/2" square.

No. 36065 decreases the square 3/4" to 5/8" square.

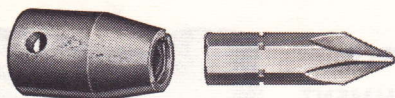
No. 36066 increases the square 3/4" to 1" square.

FOR 1" SQUARE DRIVE WRENCHES
No. 322, 482

No. 36068 decreases the square 1" to 3/4" square.

SEE PAGE 22 FOR SOCKETS

ADAPTOR FOR INSERT BITS



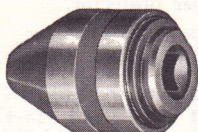
No. 36034—3/8" Square to 5/16" Hex.

No. 36085—1/2" Square to 5/16" Hex.

No. 36086—5/8" Square to 5/16" Hex.

SEE PAGE 27 FOR INSERT BITS

KEYLESS JACOB CHUCK



No. 36010—1/2" Square Drive takes from 3/16" to 1/2" drill bits.

QUICK CHANGE CHUCK

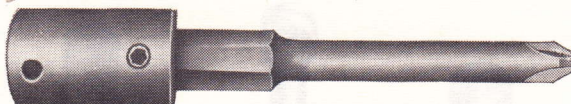


Slips directly onto the square of Impact Wrench
For all types of screwdriver bits having 7/16" or 1/4" hex shanks.

The sliding sleeve locks the bit securely in place.

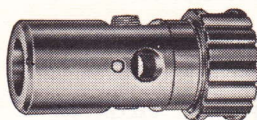
Cat. No.	Female Square	Female Hex	Length
36030	3/8"	1/4" (Bits P.28)	1 13/16"
36031	3/8"	7/16" (Bits P.27)	2 1/4"
36020	1/2"	7/16" (Bits P.27)	2 1/4"
36021	5/8"	7/16" (Bits P.27)	2 1/4"
36029	1/2"	1/4" (Bits P.28)	2"

INSERT BIT ADAPTORS NOT QUICK CHANGE



These adaptors are used on hexagon shank bits to permit their use with power tools having male square drive. Adaptors are pressed on bits and are intended for applications not requiring the quick-change feature shown above.

Cat. No.	Female Square	Female Hex	Length
36083	3/8"	1/4" (Bits P.28)	1 1/2"
36084	3/8"	7/16" (Bits P.27)	1 1/4"
36032	1/2"	7/16" (Bits P.27)	1 1/2"
36033	5/8"	7/16" (Bits P.27)	1 1/2"



COLLET TAP CHUCKS

Slips directly onto the square of Impact Wrench. Includes one collet to hold taps or drills, also Back Jaw Wrench and Nut Wrench.

3/8" Square Drive

No. 36005—Tap Chuck.

No. 36007—Collet, or No. 0 to 1/4" taps, 9/64" to 1/4" Drills.

No. 36006—Collet, or No. 10 to 5/16" taps, 13/64" to 5/16" Drills.

No. 30207—Back Jaw Wrench (1/8" Allen).

No. 36008—Nut Wrench.

1/2" and 5/8" Square Drive

No. 36001—Tap Chuck, 1/2" Square Drive.

No. 36015—Tap Chuck, 5/8" Square Drive.

No. 36003—Collet, for No. 10 to 1/2" Taps, 13/64" to 3/8" Drills.

No. 36002—Collet, for 5/16" to 5/8" taps, 5/16" to 15/32" Drills.

No. 30096—Back Jaw Wrench (5/32" Allen).

No. 36004—Nut Wrench.

NO. 2358 HANDLE ATTACHMENT



For use with Electric Impact Wrench and No. 448 Wire Brush. The knurled sleeve with grip shield assures positive control. Use with No. 448 Wire Brush.

The free rotating spindle with pre-lubricated bearings fits any 1/2" sq. drive Impact Wrench. 6 1/2" long; 1/2" arbor; 1/2" square drive.

No. 2358-448—Handle and Wire Brush.



STANDARD
THE

SIoux AIR HOSE

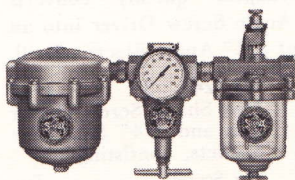


Sioux Air Hose is designed for air tools use. These hoses are oil and abrasive resistant. Inside diameters and fittings are of proper size for maximum tool efficiency.

Cat. No.	Used On	Use	Size I.D.	Length	Fittings
1368	303, 313, 314	Exhaust	3/8"	6 Ft.	No Fittings
1364	470, 473, 474, 501 1450, L & P Screw Driver, Drill, Nut Runner	Exhaust	3/8"	6 Ft.	1/4" MPT One End
1369	L & P. Screw Drivers, Drills, Nut Runners 1450	Leader Supply	1/4 "	8 Ft.	1/4" Both Ends
1370	303, 313, 314, 270, 470, 473, 474, 501	Leader Supply	5/16"	6 Ft.	1/4" MPT Both Ends
1371	303, 313, 314, 270, 470, 473, 474, 501	Supply	5/16"	25 Ft.	1/4" MPT Both Ends
1372	303, 313, 314, 470, 473, 474, 270, 501	Supply	5/16"	50 Ft.	1/4" MPT Both Ends
1373	303, 313, 314, 470, 473, 474, 270, 501	Supply	5/16"	100 Ft.	1/4" MPT Both Ends
1374	303, 313, 314, 470, 473, 474, 270, 501	Supply	5/16"	100 Ft.	No Fittings
1376	312, 315, 316, 317, 318	Leader Supply	3/8 "	6 Ft.	1/4" MPT Both Ends
1377	312, 315, 316, 317, 318	Supply	3/8 "	25 Ft.	1/4" MPT Both Ends
1378	312, 315, 316, 317, 318	Supply	3/8 "	50 Ft.	1/4" MPT Both Ends
1379	312, 315, 316, 317, 318	Supply	3/8 "	100 Ft.	1/4" MPT Both Ends
1380	312, 315, 316, 317, 318	Supply	3/8 "	100 Ft.	No Fittings
1381	320, 322	Leader Supply	1/2 "	6 Ft.	3/8" MPT Both Ends
1382	320, 322	Supply	1/2 "	25 Ft.	3/8" Coupler 1/2" Supply MPT
1383	320, 322	Supply	1/2 "	50 Ft.	3/8" Coupler 1/2" Supply MPT
1384	320, 322	Supply	1/2 "	100 Ft.	3/8" Coupler 1/2" Supply MPT
1385	320, 322	Supply	1/2 "	100 Ft.	No Fittings
1386	482, 505, 517	Leader Supply	1/2 "	6 Ft.	1/2" MPT Both Ends
1360	482, 505, 517	Supply	1/2 "	25 Ft.	1/2" MPT Both Ends
1362	532, 541	Supply	3/4 "	25 Ft.	1/2" Coupler 3/4" Supply MPT
1363	532, 541	Supply Extension	3/4 "	25 Ft.	3/4" Both Ends

Quick Change Couplers are recommended with the above hoses.

AIR TOOL CONTROL UNIT



efficiency. Filter empties automatically.

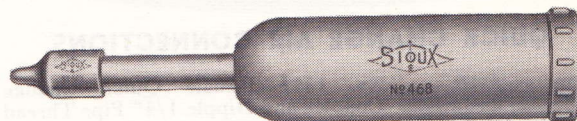
No. 1345—Complete Automatic Air Control Unit, 1/4" PT, includes: Air Regulator, Air Filter, and Lubricator. For wrenches Nos. 303, 312, 313, 314, 315, 316, 317, 318, 501, 270 and P&L series nut runners, drills and screw drivers.

No. 1347—Complete Automatic Air Control Unit, 1/2" PT, same as above with greater capacity. For Nos. 320, 322, 482, 505 and 517 units.

No. 1348—Complete Air Control Unit, 3/4" PT, with greater capacity and float type filter which empties automatically when full. For Nos. 532 and 541 units.

The Air Control Unit is designed to deliver clean, dry air properly regulated (90 P.S.I.) with a constant oil supply to air tools. The use of an air control unit reduces maintenance cost with increased life and efficiency.

AIR TOOL ATTACHMENTS



No. 468—Grease Gun. Used with Nos. 470, 473, 474, 482, 517, 541, and Multi-assembly angle tools.



No. 469—Grease nozzle to be used with No. 468 Grease Gun.

LUBRICATOR



No. 1355—Lubricator only, 1/4" PT, 1/2 Pint Capacity, highly recommended for providing lubrication to Air Motor. For units same as No. 1345.

No. 1356—Lubricator only. Same as above except 1/2" PT and 1/2 Pint Capacity. For units same as No. 1347.

No. 1357—Lubricator only, same as above, except 3/4" PT and 1/2 pint capacity for units same as No. 1348.

REGULATOR



No. 1349—Regulator with Gauge, 1/4" PT. For Wrenches same as No. 1345.

No. 1350—Regulator with Gauge, 1/2" PT. For units same as No. 1347.

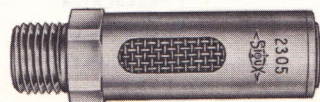
No. 1351—Regulator with Gauge, 3/4" PT, for units same as No. 1348.

AUTOMATIC AIR FILTER

No. 1352—Air Filter, 1/4" PT, separates water and foreign matter in Air Line, preventing rusting, clogging; adds to life of air tool; empties automatically each time air tool is used. For units same as No. 1345.

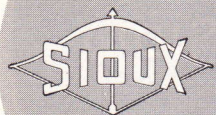
No. 1353—Air Filter. Same as above except 1/2" PT. For units same as No. 1347.

No. 1354—Air Filter, 3/4" PT large capacity automatic float drain empties when full. For units same as No. 1348.



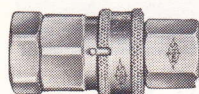
No. 2305—Sioux Silencer to be used in place of the exhaust hose.

TOOLS
WORLD
OVER



SCREW DRIVER ATTACHMENTS

QUICK CHANGE AIR CONNECTIONS



No. 1391—Female Quick Change Coupler and Nipple 1/4" Pipe Thread

No. 1392—Female Quick Change Coupler and Nipple 3/8" Pipe Thread

No. 1393—Female Quick Change Coupler and Nipple 1/2" Pipe Thread

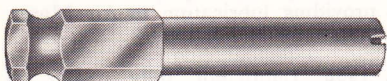
No. 1394—Quick Change Coupler and Nipple, 3/4" Pipe Thread

No. 1395 — Male Coupler Nipple. 1/4" PT.

No. 1396 — Male Coupler Nipple. 3/8" PT.

No. 1397 — Male Coupler Nipple. 1/2" PT.

No. 1398 — Male Coupler Nipple, 3/4" PT.



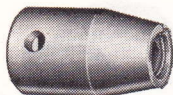
INSERT BIT HOLDER

7/16" Hex Drive for 5/16" Hex Insert Bits

No. 36018—Non Magnetic Insert Bit Holder for use with Quick Change Chucks and Quick Change Chuck on Air Screw Driver, and 5/16" Hex Insert Bits shown on Page 27.

No. 36019—Magnetic Insert Bit Holder—Otherwise same as above.

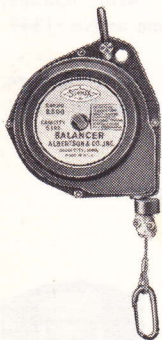
Adaptor for impact wrench, 5/16" Hex Insert Bits.



No. 36034—3/8" Square to 5/16" Hex. Adaptor.

No. 36085—1/2" Square to 5/16" Hex. Adaptor.

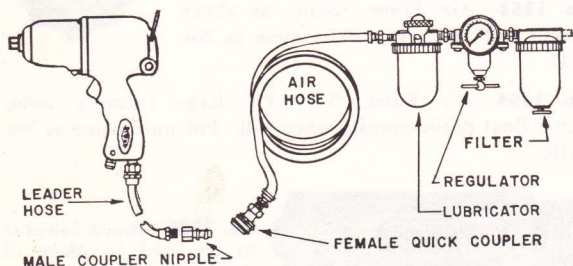
No. 36086—5/8" Square to 5/16" Hex. Adaptor.



BALANCER

No. 2300—Capacity 5 lbs. — Sioux balancers are recommended for suspending portable air and electric tools over benches or assembly lines.

PREFERRED HOOKUP FOR AIR TOOLS



FOR SCREW DRIVERS OR IMPACT WRENCHES WITH QUICK CHANGE CHUCK

7/16" HEX SHANKS

For 312 Screw Driver



These shanks are used with 3/8" and 1/2" Square Drive Sockets shown on Page 22.

No. 36627—7/16" Hex Shank with 3/8" Male Square Drive. 2 3/4" Long.

No. 36628—7/16" Hex Shank with 1/2" Male Square Drive. 2 3/4" Long.



1/4" HEX SHANK

For Screw Drivers

Nos. 242-246-260-262-303
P and L Series

No. 36629—1/4" Hex. Shank with 3/8" Male Square Drive. 2" long. Used with 3/8" Square Drive Sockets shown on Page 22.



1/4" Hex Shanks 1/4" Square Drive

No. 36625—Shank 2" Long.

No. 36626—Shank 6" Long.

For use with 1/4" Square Drive
Sockets shown on Page 22.



1/4" HEX SHANK SCREW PILOT DRILLS & ADAPTOR



No. 36660 Adaptor—Length Screw Size

No. 36661 Pilot Drill 5/8" 4- 5

No. 36662 Pilot Drill 3/4" 6- 7

No. 36663 Pilot Drill 1 " 8- 9

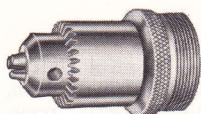
No. 36664 Pilot Drill 1 1/4" 8- 9

No. 36665 Pilot Drill 1 1/2" 10-12



1/4" CHUCK AND ADAPTOR

For No. 242
or No. 246



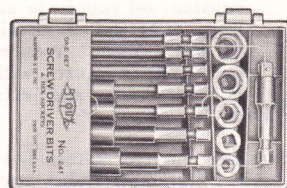
Replaces Screw Driver
Clutch Head

No. 33206—1/4" Geared Chuck and Adaptor quickly converts Sioux Angle Screw Driver into an efficient 1/4" Angle Electric Drill.

No. 241—Set of 1/4" Hex Shank Screw Driver Bits and 1/4" Sq. Drive Sockets, consisting of

Hex Sockets	Size
No. 2608	1/4 " 5/16"
2610	5/16"
2612	3/8 "
2614	7/16"
2616	1/2 "

Shank	Length
No. 36625	2"



Slotted Screw Bits	Screw No.
No. 36501	4-5-6
36515	7-8
36529	9-10
36543	12

Phillips Bits	Screw No.
No. 36601	#1 4
36607	2 5 to 9
36613	3 10 to 16

ALL PACKED IN
STRONG TRANSP-
ARENT PLASTIC
BOX.



STANDARD
THE

FOR NO. 312 AIR SCREWDRIVER OR IMPACT WRENCHES WITH QUICK CHANGE CHUCK

7/16 INCH
HEX DRIVE



PHILLIPS HEAD BITS

Sioux No.	Bit Length	Body Dia.	Point Size
36022	3 1/2"	1/4"	2
36023	3 1/2"	5/16"	3
36024	3 1/2"	3/8"	4

FREARSON BITS (Reed & Prince)

Sioux No.	Bit Length	Body Dia.
36450	3 1/2"	1/4"
36451	3 1/2"	5/16"
36452	3 1/2"	3/8"

CLUTCH HEAD BITS

Sioux No.	Bit Length	Clutch Size	Screw Size
36475	3 1/2"	5/32"	No. 6-No. 10
36476	3 1/2"	3/16"	No. 10-No. 12
36477	3 1/2"	1/4"	No. 12-No. 14 & 1/4"
36478	3 1/2"	5/16"	5/16"-3/8"
36479	3 1/2"	3/8"	3/8" Flat or Oval

SOCKET HEAD (Allen Type)

Sioux No.	Bit Length	Hex Size	Socket No. Cap Screw	Socket Set Screw
36482	3 1/2"	3/16"	1/4"	3/8"
36483	3 1/2"	7/32"	5/16"	7/16"
36484	3 1/2"	1/4"		1/2"
36485	3 1/2"	5/16"	3/8" & 7/16"	5/8"
36486	3 1/2"	3/8"	1/2"	3/4"
36487	3 1/2"	1/2"	5/8"	7/8"

SLOTTED HEAD BITS



Sioux Number For Bit & Finder	Length	Sioux Number For Bit Only	Screw Size
36462	3 7/8"	36463	10 or 12
36464	3 7/8"	36465	12 or 14
36466	4 1/8"	36467	14 or 16
36468	4 1/8"	36469	16 or 20
36470	4 1/8"	36471	20 or 22
36472	4 1/8"	36473	24

SCREW DRIVER BITS 7/16"-5/16" Hex Drive



5/16" HEX INSERT BITS



Used with 7/16" Hex Drive Insert
Bit Holder shown on page 26.

PHILLIPS HEAD BITS

5/16" HEX DRIVE



Sioux No.	Bit Length	Point Size
36087	1 1/4"	2
36088	1 1/4"	3
36089	1 1/4"	4

FREARSON BITS

(REED & PRINCE) 5/16" HEX DRIVE



Sioux No.	Bit Length	Screw Size
36090	1 3/8"	For No. 5 and Smaller Screws
36091	1 3/8"	For No. 6 and Larger Screws

CLUTCH HEAD BITS

5/16" HEX DRIVE



Sioux No.	Bit Length	Clutch Size
36100	1 3/8"	1/4"
36101	1 1/2"	5/16"

SOCKET HEAD BITS

5/16" HEX DRIVE



Sioux No.	Bit Length	Hex Size	Cap Screw Size	Set Screw Size
36103	1"	3/16"	1/4"	3/8"
36104	1 5/16"	7/32"	5/16"	7/16"
36105	1 5/16"	1/4"		1/2"
36106	1 5/16"	5/16"	3/8" & 7/16"	5/8"
36107	1 1/4"	3/8"	1/2"	3/4"

SLOTTED BITS

5/16" HEX DRIVE



Sioux No.	Bit Length	Blade Thickness	Screw Size
36094	1 1/2"	.042"	8-10
36095	1 1/2"	.046"	10-12
36096	1 1/2"	.050"	12-14
36097	1 1/2"	.055"	14-16

TOOLS

WORLD
OVER



SCREW DRIVER BITS 1/4" Hex Drive

1/4 Inch
Hex Drive



CLUTCH HEAD SCREW DRIVER BITS

Bit Number	Length	Clutch Size	Screw Size
36616	1 15/16"	3/32"	No. 2, 3, 4
36617	1 15/16"	1/8"	No. 4, 6
36618	1 15/16"	5/32"	No. 6
36623	3 1/2"	5/32"	No. 8, 10
36619	1 15/16"	3/16"	No. 10, 12
36620	1 15/16"	1/4"	No. 12, 14, 1/4"
36621	1 15/16"	5/16"	5/16", 3/8"



REED AND PRINCE TYPE SCREW DRIVER BITS (FREARSON)

Bit Number	Bit Length	Body Diameter
36583	2 3/4"	3/16"
36584	2 3/4"	1/4"
36585	2 3/4"	5/16"



PHILLIPS TYPE SCREW DRIVER BITS

Bit Number	Bit Length	Point Size	Screw Size
36600	1 15/16"	1	No. 4 and smaller
36601	3 1/2"	1	
36604	1 15/16"	2	No. 5 to 9
36607	3 1/2"	2	
36610	1 15/16"	3	No. 10 to 16
36613	3 1/2"	3	



SOCKET HEAD (ALLEN TYPE)

Number	Bit Length	Hex Size
36670	1 15/16"	1/8"
36671	1 15/16"	5/32"
36672	1 15/16"	3/16"



SLOTTED HEAD SCREW DRIVER BITS



Bit With Finder Sleeve	Bit Only	Length	Finder Sleeve Only	Screw Size
	36500	1 15/16"		No. 2, 3
36501	36502	3 3/4"	36503	No. 4, 5, 6
	36590	1 15/16"		5-6
36504	36505	6 3/4"	36503	No. 4, 5, 6
	36591	1 15/16"		6-7
36515	36516	3 3/4"	36517	No. 7, 8
	36592	1 15/16"		8-10
36518	36519	6 3/4"	36517	No. 7, 8
36529	36530	3 3/4"	36531	No. 9, 10
36543	36544	3 3/4"	36545	No. 12
	36593	1 15/16"		10-12
36633	36634	3 7/8"	36632	12-14

For Air & Electric Screw Drivers NON-ROTATING FINDERS AND 1/4" HEX SHANK BITS FOR SLOTTED HEAD SCREWS



Finder	Use With Bit No.	FOR SCREW HEAD TYPE AND SIZE				
		Flat	Oval	Binding	Round	Fillister
36493	36589	4,5,6	4,5,6	4,5,6	5,6	5,6
36494	36595	5,6,7	5,6,7	7	7	8
36495	36591	7	7,8	7,8	8,9	10
36496	36592	8,9	8,9	8,9	8,9,10	10
36497	36593	10,11,12	10,11,12	10,11,12	11,12	12,1/4
36498	36594	11,12,14,1/4	11,12,1/4	12,1/4	12,14,1/4	1/4

INSERT BITS FOR MAG. & NON MAG. HOLDERS



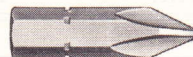
1/4" Hex Shank

No. 36549—Magnetic
Bit Holder

No. 36550—Non-Mag-
netic Bit Holder



PHILLIPS



Number	Bit Length	Point Size
36552	1"	1
36553	1"	2
36554	1"	3



FREARSON (REED & PRINCE)

Number	Bit Length	Screw Size
36556	1 1/8"	No. 5 and Smaller Screws
36557	1 1/8"	No. 6 and Larger Screws



CLUTCH HEAD

Number	Bit Length	Clutch Size
36563	1 1/4"	3/32"
36564	1 1/4"	1/8"
36565	1 1/4"	5/32"
36566	1 1/4"	3/16"
36567	1 1/4"	1/4"
36568	1 3/4"	5/16"



SOCKET HEAD (ALLEN TYPE)

Number	Bit Length	Hex Size
36572	1"	1/8"
36573	1 5/16"	5/32"
36574	1 5/16"	3/16"



SLOTTED

Number	Bit Length	Screw Size
36558	1 1/2"	4F- 5R
36559	1 1/2"	6F- 8R
36560	1 1/2"	8F-10R
36561	1 1/2"	10F-12R



STANDARD
THE

TOOLS

WORLD
OVER



HOLDER

No. 510 — Adaptor Flange for Sioux reinforced grinding wheels. Complete with basic holder, No. 512, 5/8"-11 thread-nut, No. 30110 Allen Wrench, and two No. 35000 washers.

Used on 505 and 1270 and for converting vertical air grinder and sanders to depressed center wheel grinders. Caution! Use proper size guard.

HOLDER NUT

No. 512—Flange nut, 5/8"-11, for No. 510 holder.



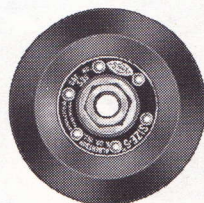
WRENCH



No. 2304 — Wrench 2 1/8" opening. Used on drive flange of 1270 and all vertical air grinders and sanders.

No. 30110—3/8" Allen Wrench. Used with No. 512 and No. 536 holder nuts.

DISC HOLDER



No. 535—5" Basic Disc Holder with No. 536 5/8"-11 thread disc nut and 30110 wrench for abrasives with 7/8" round hole.

No. 539—Sanding Disc Holder for 9" abrasives. 7/8" hole, complete with No. 535 basic disc holder, No. 536 disc nut, No. 549 9" disc

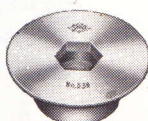
backing pad, No. 30110 wrench, and three 9" industrial abrasives. Used with No. 505 and No. 532 Sioux Vertical Air Sander.

No. 537—Sanding Disc Holder for 7" abrasives, 7/8" hole, complete with No. 535 basic disc holder, No. 536 disc nut, No. 547 7" disc backing pad, and No. 30110 wrench and three 7" abrasives. Used with No. 505 Sioux Vertical Air Sander.

Nos. 537 and 539 can be used to convert 1270 Electric Grinder and Sioux Vertical Air Grinders and Wire Brush Machines to 7" and 9" Sanders. 9" not for speeds over 6,000 R.P.M.

DISC NUT

No. 536—Disc Nut, 5/8"-11 thread, for No. 535 holder.



BACKING PAD

No. 549—9" Disc Backing Pad, 7/8" round hole, for No. 535 holder.

No. 547—7" Disc Backing Pad, 7/8" round hole, for No. 535 Holder.



L TYPE LIGHT DUTY PADS

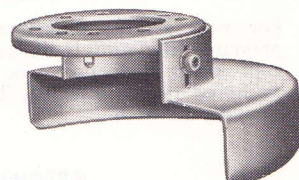
Disc Backing Pads are available in lighter material. Use above catalog number suffixed by letter "L". Example — 549-L.

SANDER GRINDER ATTACHMENTS



ADJUSTABLE GUARD

for 7" and 9" depressed center wheels



No. 2318—7" Guard for No. 1270 grinder only.

No. 2319—9" Guard for No. 1270 grinder only. Standard Equipment

No. 2326—7" Guard standard equipment on No. 505, 7000 R.P.M. Grinder. Used to convert Vertical Air Grinders and Sanders to depressed center wheel grinders.*

No. 2327—9" Guard standard equipment on No. 505, 6000 and 4500 R.P.M. Grinder. Used to convert vertical air grinders and sanders to depressed center wheel grinders.* Caution! Not for speeds over 6000 R.P.M.



for 6" Flared Cup and Straight Cup Wheels

No. 2322—6" Guard for No. 505 and No. 532. Used to convert vertical air grinders and sanders to cup wheel grinders.*

Optional Equipment. Caution! Not for speeds above 6000 R.P.M.

REVOLVING CUP WHEEL GUARD

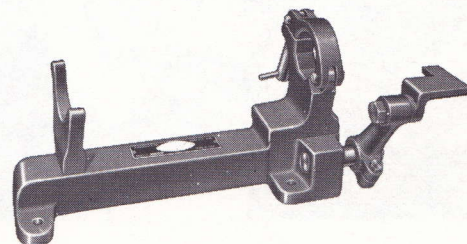
No. 2323 — 5" Guard standard equipment on No. 505, 7000 R.P.M. grinder. Used to convert vertical air grinders and sanders to 5" cup wheel grinder.



No. 2324 — 6" Guard standard equipment on No. 505, 6000 and 4500 R.P.M. and No. 532 Grinders. Used to convert No. 1270 Grinder and vertical air grinders and sanders to 6" cup wheel grinders. Caution! Not for speeds over 6000 R.P.M.

* Use No. 12258 Adaptor for No. 532.

HORIZONTAL BENCH STAND



No. 1192—For No. 1190-5" and No. 1195-6" Portable Grinders.



PORTABLE POWER UNIT

ALL PARTS ARE HIGHLY PRECISION BUILT AND MACHINED

For your safety (though there is little operating back pressure) the unit is designed so that a strap, chain or rope may be looped around the machine handle and anchored to the vise leg. Thus, you can thread pipe by pressing a switch.

SPECIFICATIONS

CAPACITY—Threads 1/4" to 1" pipe with direct drive. Threads 1" to 2" pipe with Cat. 1511 Speed Reducer attached. Threads 2 1/2" pipe and up with adaptor to fit respective geared die stocks. See page 31.

MOTOR—Reversible power packed 3/4 HP Sioux Motor, 115 Volt, 10 Amp AC or DC 230 on special order. 530 RPM at Stem. Reduced to 26 RPM tool output.

HOUSING AND MOTOR MOUNTS—"Tuff" Amaloy — A ductile high strength aluminum alloy possessing a 38,000 pound tensile strength it won't break or fracture regardless of abuse.

WORM—BOSTON Steel.

WORM GEAR—Special gear grade alloy.

BEARINGS—Precision ball bearings on worm shaft and on worm gear — 3,000 lbs. thrust load, 4,000 lbs. radial load.

SWITCHES—Reversing switch to motor. Power control is positive action trigger. Both switches protected with guard.

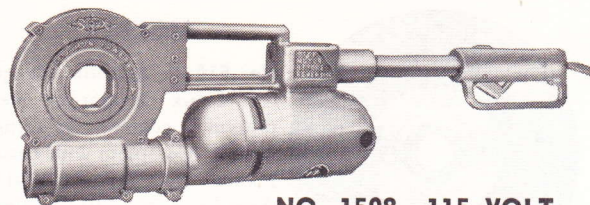
CORD—Heavy duty, oil resistant industrial size 16 with strain relief.

LUBRICATION—Hypoid gear oil SAE 140. Sealed in with Neoprene seals.

DIMENSIONS—Compact 4 1/2" wide x 7 1/2" high x 27" long.

SCREWS—Allen hollow head.

WEIGHT—Flyweight 20 lbs.

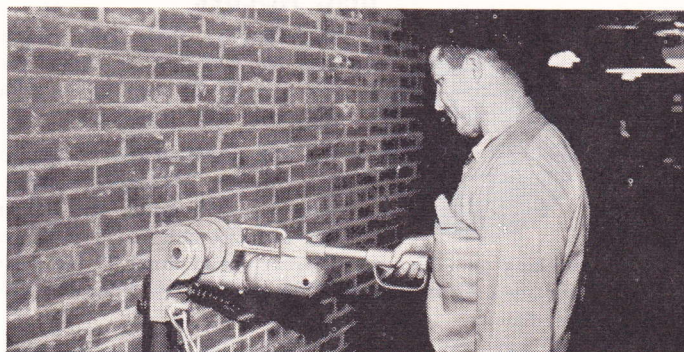


NO. 1508—115 VOLT
NO. 1508A—230 VOLT

PORTABLE — LIGHT WEIGHT VERSATILE — COMPACT

The Sioux is portable and versatile — anyone can thread pipe in seconds right on the job — anywhere — anyplace. The complete operation is done with one hand after the unit has been placed on the pipe. While holding the handle, press the guarded, conveniently placed trigger and power surges to the cutting point. Requires practically no maintenance, just check the oil level and brushes on motor periodically. AMALLOY will stand mistreatment. The fine precision, hardened, reliable parts are prepared to tackle the roughest job.

Precision Engineered for Durability
Through Long, Hard and Varied Usage



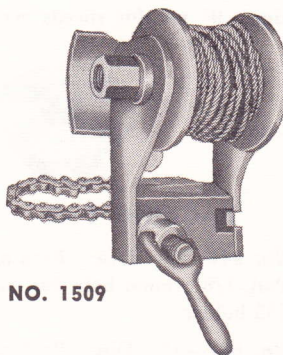
No. 1508 Power Unit pulling wire through conduit with aid of No. 1509 Portable Winch.



STANDARD
THE



Threads 1/4" to 1" pipe with rigid type "OR" dies in 20 seconds.



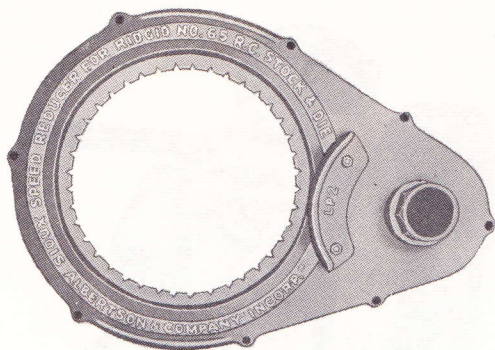
NO. 1509

WIRE PULLER OR PORTABLE WINCH ATTACHMENT

CONVERTS THE
SIoux POWER UNIT
TO AN
EFFICIENT
WINCH

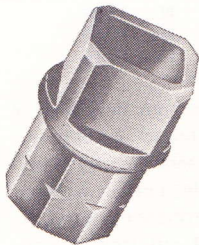
Power Will Pull 1,000 Lbs. Easily

The Wire Puller or Portable Winch, illustrated, will hold approximately 100 foot of 3/16" cable. Capacity of other cable sizes depends upon the diameter of the cable.



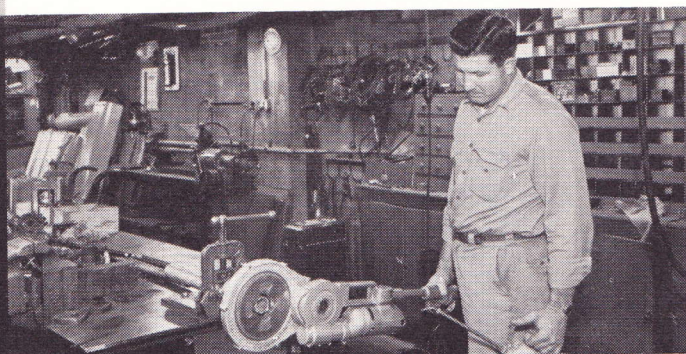
NO. 1511 SPEED REDUCER

For threading 1"-2" pipe-speed reducer attaches to Basic Power Unit, complete operation — one minute 24 seconds. Used directly with Ridgid 65R series and NYE51B die stocks.



SQUARE DRIVE ADAPTOR NO. 38002

Square drive adaptor adapts the power unit to square drive shank on geared die stocks and cutters for larger size pipe.



No. 1508 Power Unit in use with No. 1511 Speed Reducer.

Cat. No.	Fig. No.	Size	Die Stocks Adaptable
38001	VAD-1	1/8"—1"	Ridgid 00R
38001	VAD-1	1/8"—1" Bolt	Ridgid 00R-B
38002	VAD-2	1 " Square (hollow)	Square Shank—any 2 1/2" - 10" gear driven
38003	VAD-3	1/8"—1"	Ridgid 111R
38003	VAD-3	1/8"—1"	Toledo 11
38003	VAD-3	1/8"—1"	Nye N 60 Series
38004	VAD-4	1/8"—3/4"	Toledo 00
38004	VAD-4	1/4"—5/8" Bolt	Toledo 101
38004	VAD-4	1/8"—3/4"	Beaver 2
38004	VAD-4	1/8"—3/4"	Nye N 50 Series
38004	VAD-4	1/8"—3/4"	Armstrong 90 R
38005	VAD-5	1/4"—1" Bolt	Greenfield Little Giant
38006	VAD-6	1 "—2"	Toledo Simpack*
38008	VAD-8	3/4" Square	Square Solid Drive
38011	VAD-11	1/8"—1"	Reed 71 Series
38012	VAD-12	1/8"—1"	Reed 72 Series
38013	VAD-13	1/8"—2"	Toledo 12*
38014	VAD-14	1/8"—1"	Ridgid 11 R
38015	VAD-15	1/8"—2"	Ridgid 12 R*
38016		1"—2"	NYE 1A & 1R*

*Use with No. 1511 Adaptors For Other Type Dies Available On Request

PIPE THREADER ADAPTORS



1.975 ID
VAD-1
Cat. No.
38001



1" ID
VAD-2
Cat. No.
38002



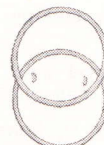
2 1/2" ID
VAD-3
Cat. No.
38003



1.570 ID
VAD-4
Cat. No.
38004



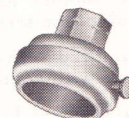
2 3/4" ID
VAD-5
Cat. No.
38005



VAD-6
Cat. No.
38006



3/4" OD
VAD-8
Cat. No.
38008
(from 1 1/2" to 3/4")



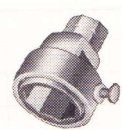
2 3/8" ID
VAD-11
Cat. No.
38011



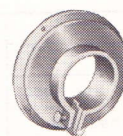
2 3/4" ID
VAD-12
Cat. No.
38012



3.130 ID
VAD-13
Cat. No.
38013

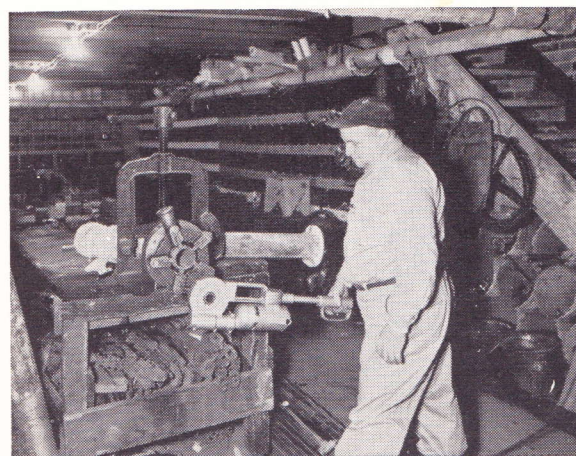


2 13/16" ID
VAD-14
Cat. No.
38014



3.630 ID
VAD-15
Cat. No.
38015

6.460" ID
Cat. No.
38016



No. 1508 Power Unit Driving Geared Die Stock with No. 38002 Adaptor.



HEAVY DUTY ELECTRIC SAWS

8 1/4" - 7 1/2" - 6 1/4"

Greater value, power, durability, and ease of handling has been built into SIOUX Saws than any other saws of like capacity.

Their rugged ability to stand up and do the job cannot be matched.

Simplified bevel and depth gauges make changes easy.

Ball and roller bearings are used throughout in SIOUX Saws and are permanently lubricated. No further lubrication required.

The motors are glass insulated, making for long and trouble free service.

No. 1808—8 1/4" Saw with Bevel and Depth attachment, with combination blade, rip scale guide, and wrench.

No. 1805—7 1/2" Saw with above equipment.

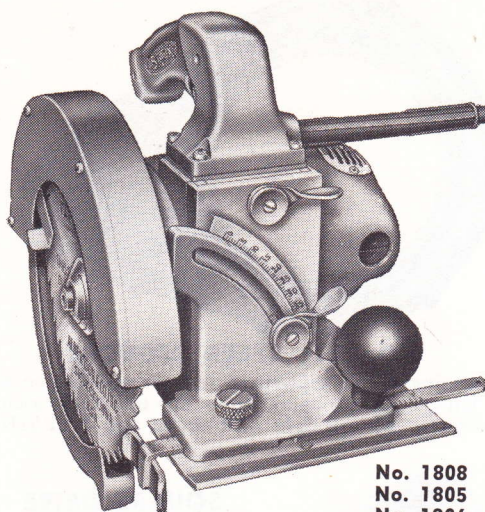
No. 1807—Metal Carrying Case for 1805—1808—1806.

No. 1806—6 1/4" Saw with above equipment.

SPECIFICATIONS

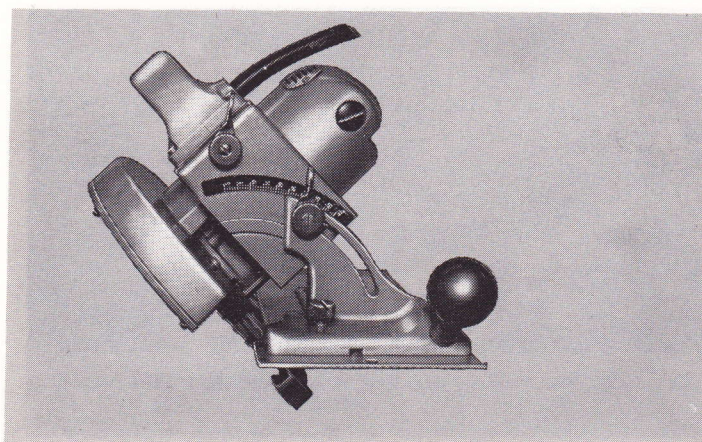
	Saw Numbers		
	1805	1806	1808
Dia. Saw Blade	7 1/2"	6 1/4"	8 1/4"
Hole Size	5/8"	5/8"	5/8"
Depth of Cut	2 7/16"	1 15/16"	2 13/16"
Base Adjustment	0 to 2 7/16	0 to 1 15/16	5/16 to 2 13/16
Bevel Cuts at 45°	2"	1 13/16"	2 3/16"
Universal Motor 115 Volt	3/4 H.P.	1 1/16 H.P.	7/8 H.P.
Free Speed	5300 RPM	5300 RPM	5300 RPM
Amps at 115 Volt	9	8	10
Net Weight	14 1/4	14	15 1/2

230 Volt Available, Same Price
32 Volt Not Available



No. 1808
No. 1805
No. 1806

Angle and depth adjustments; modern design helical gear drive; adjustable rip scale guide; standard equipment; Momentary safety switch, double pole; permanently lubricated; sturdy, powerful, light, dependable; perfect balance one hand operation; exceptional performance; standard round hole blades; blower keeps line of cut free of sawdust; telescoping guards; motor glass insulated.



**STANDARD
THE**

SIOUX SAW TABLE WITH STAND

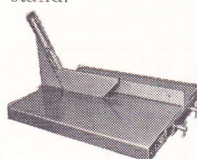


No. 1800—Strong, sturdy light-weight converts Sioux Saws to a table saw. Finger-tip switch control. Size of top 21 1/2 x 17, height 35". Maximum depth of cut No. 1805 saw—2 5/16"; No. 1806 saw—1 13/16"; No. 1808 saw—2 9/16"; maximum rip—right 8" with rip fence; depth front of blade 10" with 6" saw; steel construction; 10 ft. electric cord.

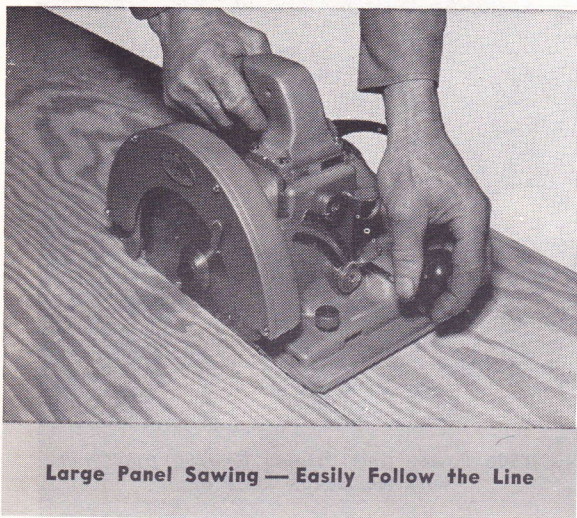
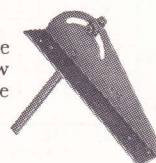
No. 1800—Saw table complete as above.

No. 1800A—Saw table complete, less the finger-tip switch control.

No. 1801—Saw table only with guard and rip fence. No legs or stand.



No. 1801A—Mitre gauge for saw table purchase extra.



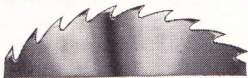
Large Panel Sawing — Easily Follow the Line

SAW BLADES FOR SIOUX ELECTRIC HAND SAWS STANDARD 5/8" ROUND HOLE

ELECTRIC SAW BLADES



ELECTRIC SAW NUMBER

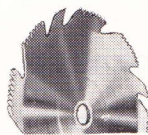
DESCRIPTION	1808 Blade No.	1805 Blade No.	1806 Blade No.
COMBINATION BLADE The standard (wood) saw blade for all-around general service. For fast Ripping or Cross-Cutting. Supplied as standard equipment with all electric saws.	 1871 8 1/4"	1890 7 1/2"	1841 6 1/4"
CROSS-CUT BLADE For all types of Cross-Cut work and recommended for hard wood. Makes a smoother cut than the combination blade.	 1872 8 1/4"	1891 7 1/2"	1842 6 1/4"
MITRE BLADE The ideal blade for making very smooth cuts, both Cross-Cut or Rip, for interior finish and trim.	 1873 8 1/4"	1892 7 1/2"	1843 6 1/4"
FLOORING BLADE Especially tempered for repairing old floors where nails are encountered. Also for opening boxes, crates, and for maintenance work.	 1874 8 1/4"	1893 7 1/2"	1844 6 1/4"
FINE TOOTH BLADE For cutting soft and porous wall board and similar types of insulation material.	 1876 8"	1894 7"	1845 6"
METAL CUTTING BLADE Recommended for cutting non-ferrous metals only, such as sheet aluminum, copper, brass or lead.	 1877 8"	1895 7"	1846 6"
FRICTION BLADE For cutting light gauge metal sheets such as corrugated metal roofing. Cuts faster than abrasive disc.	 1879 8"	1896 7"	1847 6"
CARBIDE TIPPED BLADES Carbide blades give from 30 to 50 times more wear than regular blades. Cuts all types of wood material.	 1875 8"	1897 7 1/2"	1848 6"
ABRASIVE DISC Used for cutting or scoring tile, slate, marble, cement, mortar, and similar materials. Safety Type.	 1878 8"	1899 7"	1853 6"

DADO SAWS

**5/8" Arbor Holes 5" Diameter
11/16" Wide**



Filler



Outside

A Sioux Dado Head set is made up of two hollow ground outside saws with Y-Teeth 1/8" thick; with one 1/16", one 1/8" and one 1/4" Filler Blade. Width of set is 11/16".

No. 1866—5" Dado Head as above 11/16" wide.

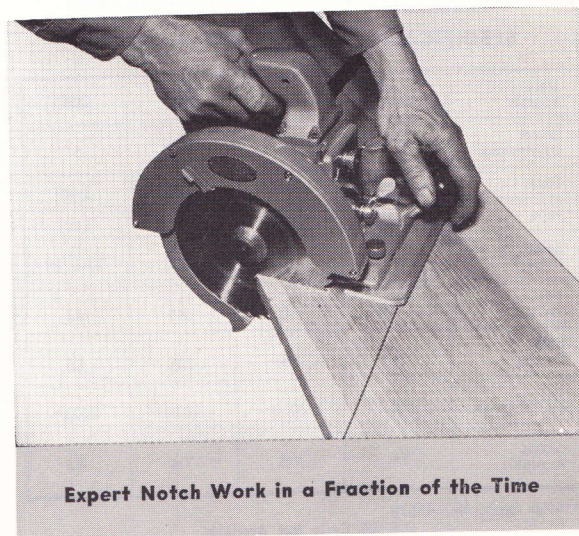
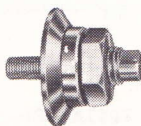
No. 1866-A—5" dia. Outside Saw, 1/8" thick.

No. 1866-B—5" dia. Filler, 1/16" thick.

No. 1866-C—5" dia. Filler, 1/8" thick.

No. 1866-D—5" dia. Filler, 1/4" thick.

No. 1862—Arbor 5/8" hole fits all Sioux Electric Saws for Dado Heads. Will take heads up to 11/16" wide.



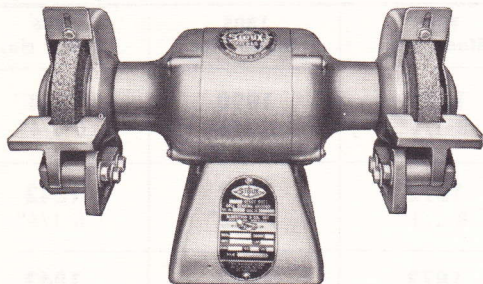
Expert Notch Work in a Fraction of the Time

TOOLS

WORLD
OVER

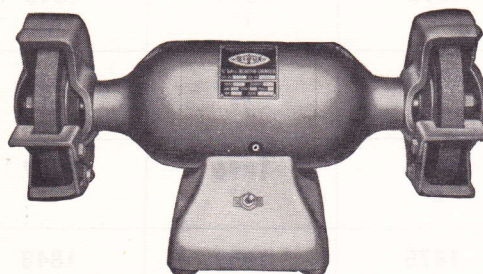
SIoux BENCH GRINDERS

HIGHEST QUALITY SELF-CONTAINED UNITS



NO. 2017—HEAVY DUTY 7" BENCH GRINDER

1/2 H.P. Ball Bearing Motor, 3450 R.P.M. Oil packed and sealed, no further lubrication. Two grinding wheels, No. 2037 fine, No. 2036 coarse, adjustable tool rests and spark guards, enclosed guards with dust collection outlets. Lights and safety eye shields extra.



NO. 2065—BENCH GRINDER 6"

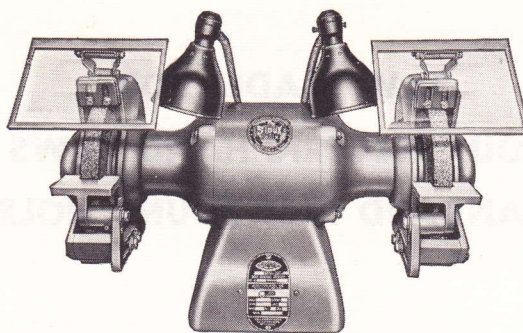
1/3 H.P. Ball-bearing Motor, 3450 R.P.M. Oil packed and sealed, no further lubrication. Two grinding wheels, No. 2007 fine, No. 2006 coarse, adjustable tool rests, 3 conductor cable and plug.

Standard Motors 115 or 230 Volt, 60 Cycle. All can be supplied in 220/440 Volt, 50/60 Cycle; Same price.

SPECIFICATIONS ON BENCH GRINDERS

Unit Number	2017	2024	2050	2065
Wheel Dimensions	7"	8"	10"	6"
Face	1"	1"	1"	3/4"
Hole	5/8"	5/8"	3/4"	1/2"
Length Overall	17"	18 1/2"	27"	17 1/2"
Net Weight	74	80	165	44
Ship. Weight	90	100	205	50
Use Eyeshield No.	2012	2012	2014	2011*
Lights Available	Yes	Yes	Yes	No

* After Serial No. 43572
D.C.-25 Cycle Not Available



No. 2050 — No. 2024

NO. 2050—HEAVY DUTY 10" BENCH GRINDER

1 H.P. Ball-bearing motor, 1725 R.P.M. Oil packed and sealed, no further lubrication. Two grinding wheels, No. 2051 fine, and No. 2052 coarse, adjustable tool rests and spark guards, enclosed guards with dust collector. Lights and safety eye shields extra.

NO. 2024—HEAVY DUTY 8" BENCH GRINDER

3/4 H.P. Ball-bearing motor, 3450 R.P.M. Oil packed and sealed, no further lubrication. Two grinding wheels, No. 2027 coarse and No. 2028 fine, adjustable tool rests and spark guards, enclosed guards with dust collector outlets. Light and safety eye shields extra.

Standard Motors 115 or 230 Volt, 60 Cycle. All can be supplied in 220/440 Volt, 50/60 Cycle; Same price.

FLEXIBLE LIGHT WITH SHADE

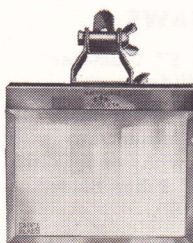
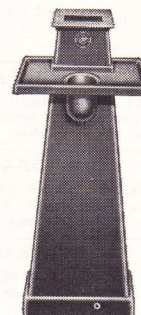
For No. 2024 or 2050 Bench Grinder

No. 18952—Flexible Light Complete with shade. Installation extra.

NO. 2062 PEDESTAL

Pedestal with water pot and tool tray.

Height 33 5/8", Top 11 3/8" x 9 5/8", Base 16 1/4 x 13 1/4". For all Sioux Bench Grinders.



No. 2012

SAFETY EYE SHIELD

No. 2012—Eye Shield, size 5x6" for 6 and 8" grinders.

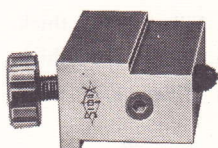
No. 2014—Eye Shield, size 6x8", for 10 and 12" grinders.

No. 2011—Pair Eye Shields for No. 2065 after Serial No. 43572.

No. 2012-A — Replacement Glass for No. 2012.

No. 2014-A — Replacement Glass for No. 2014.

DIAMOND DRESSER FOR BENCH GRINDERS



Diamond Point No. 1715 held in block for dressing wheels on all bench grinders. Gives a high accurate finish.

No. 2043—Complete Diamond Dresser with diamond and block holder.

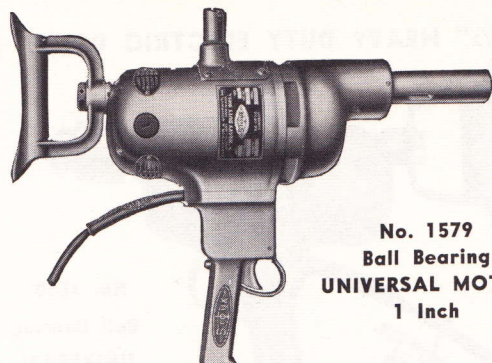
No. 2043A—Block Holder only, less diamond.

See Page 20 for Grinding Wheels

SIoux

STANDARD
THE

1" HEAVY DUTY ELECTRIC DRILL



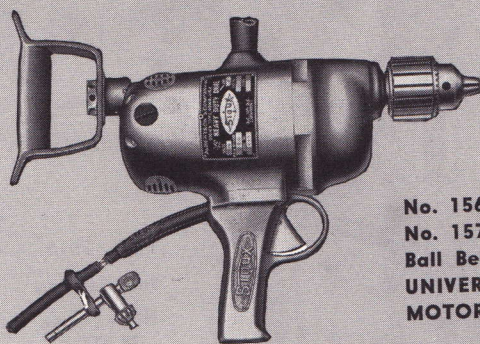
No. 1579
Ball Bearing
UNIVERSAL MOTOR
1 Inch

No. 1579—Equipped with No. 3 Morse Taper Socket and No. 3 to 2 reducing sleeve, for taper shank twist drills. Capacity in steel, up to 1 in. Capacity in hard wood, up to 2 in. Length overall 22 3/4 in. Net weight 27 1/2 lbs. Use No. 1580 Drill Stand.

For Morse Taper Sockets see below.
With Reversing Switch, \$10.00 Extra.

No. 1579-C—Same as No. 1579 except equipped with No. 22585 special spindle: 1" 8 R.H. thread for use with Coal Drill Chuck and Drills. No Chuck supplied.
Not Gas or Flame proof.

No. 1575-C—Same as 1579-C except with Power and Speed of No. 1575.



No. 1560
No. 1575
Ball Bearing
UNIVERSAL
MOTOR

5/8" AND 3/4" HEAVY DUTY ELECTRIC DRILL

No. 1560—Heavy Duty Electric Drill. Capacity in steel 1/8" to 5/8". Capacity in hardwood up to 1 1/4". Length overall, 17". Net weight 18 1/4 lbs. Use No. 1555 Drill Stand.

Can also be furnished with No Load 300 R.P.M., Full Load 180 R.P.M. \$8.00 extra.

No. 1575—Heavy Duty Electric Drill. Capacity in steel 3/16" to 3/4". Capacity in hardwood up to 1 1/2". Length overall 21". Net weight 27 1/4 lbs. Use No. 1580 Drill Stand.

No. 1560, 1575—Can also be furnished with No. 1 or No. 2 Morse Taper socket for taper shank drills. Morse Taper sockets at right.

With Reversing Switch \$10.00 Extra.

All Sioux Drills available in 230, 240 Volt. Same Price. Information on special voltage and price available on request.

All Sioux Drills except No. 1579 (Morse Taper) are complete with three jaw chuck, three conductor cord standard N.E.M.A. plug. Twist Lock Plugs Extra.

1" - 3/4" - 5/8" ELECTRIC DRILLS



A Drill For Every Purpose

ALL THE FINEST FEATURES

- ★ Needle-roller-bearings.
- ★ Permanently lubricated.
- ★ Three-conductor cord, for ground.
- ★ Cyclone fan, increased ventilation.
- ★ Heat-treated gears to increase durability.
- ★ Durable aluminum metallic finish.
- ★ Momentary safety switch.
- ★ Ball bearings.

POWER SPECIFICATIONS NOS. 1579, 1560, 1575

Catalog Number	1560	1575	1579
Size	5/8	3/4	1"
Gear Ratio	36.5 to 1	30.6 to 1	33.5 to 1
Load Speed Amp.	7.0	10.0	10.0
Volt	115	115	115
No Load Speed	400	400	350
H.P. and R.P.M. at Load Speed	9/16 260 R.P.M.	3/4 205 R.P.M.	49/64 200 R.P.M.
Oz. Ft. Torque at Load Speed	175.0	308.0	315.0
H.P. and R.P.M. at Peak Load Speed	3/4 155 R.P.M.	1 1/8 125 R.P.M.	1 9/64 115 R.P.M.
Oz. Ft. Torque Peak Load	400.0	748.0	800.0

MORSE TAPER SOCKETS FOR TAPER SHANK DRILLS

Fits on spindle of Sioux Electric Drills Nos. 1575, 1560, 1550, in place of regular chuck.

No. 1581—No. 1 Morse Taper Socket for 1/2 and 5/8 in. Nos. 1550, 1560 electric drills.

No. 1582—No. 2 Morse Taper Socket for 1/2 and 5/8 in. Nos. 1550, 1560 electric drills.

No. 1582-A—No. 2 Morse Taper Socket for 3/4, 7/8 and 1 in. Nos. 1575, 1578, 1579 electric drills.

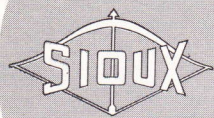
No. 1583—No. 3 Morse Taper Socket for 3/4, 7/8 and 1 in. Nos. 1575, 1578, 1579 electric drills.

No. 1583-A—No. 3 and 2 Reducing Sleeve.

No. 1582-B—No. 2 and 1 Reducing Sleeve.

TOOLS

WORLD
OVER



1/2" ELECTRIC DRILLS

A Drill For Every Purpose

SIoux ELECTRIC DRILLS

You are not expected to buy just a drill. When it's a Sioux, you know what it will do! The horsepower and torque for each Sioux Electric Drill is rated, stated and certified. Check the power specification on each drill and choose the drill that will give you the power your job requires; and you can be sure you will get the very best performance and durability.

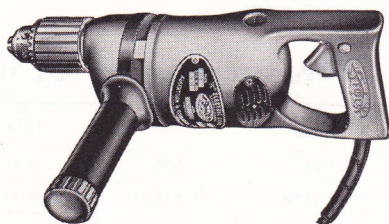
All Sioux Drills available in 230, 240 Volt. Same Price. Information on special voltage and price available on request.

All Sioux Drills are complete with three jaw chuck, three conductor cord standard N.E.M.A. plug. Twist Lock Plugs Extra.

SIoux 1/2" LIGHT DUTY ELECTRIC DRILL

NO. 1498

**Ball Bearing
UNIVERSAL
MOTOR**



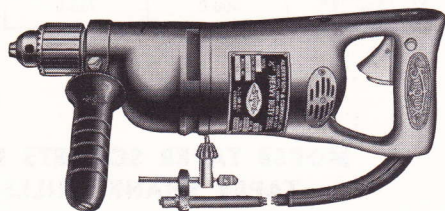
A powerful half inch drill with movable side handle, light in weight. Designed for drilling or other work of a like nature.

Capacity in steel 1/2" Capacity in wood 7/8"
Overall length 12 1/2" Net weight 9 lbs.
Use Drill Stand No. 1530.

1/2" STANDARD DUTY ELECTRIC DRILL

No. 1548

**Ball Bearing
UNIVERSAL
MOTOR**



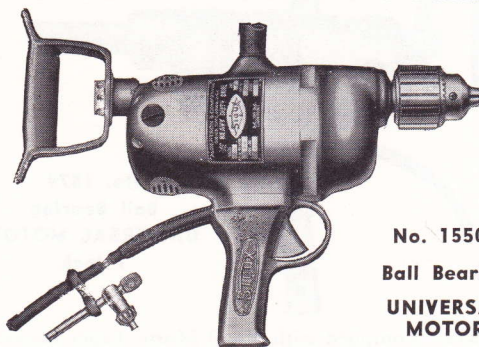
No. 1548—Slow Speed Drill, with adjustable clamp handle, affords perfect control.

Capacity in steel 1/2" Capacity in wood 7/8"
Overall length 14 1/2" Net weight 10 1/4 lbs.
Can also be furnished with no-load 410 R.P.M., full-load 245 R.P.M. \$8.00 extra.
Use Drill Stand No. 1530.

No. 109—6 oz. can. Sioux Lubricant for Nos. 1490, 1480, 1575, 1578 and 1579 Electric Drills.

No. 108—6 oz. can. Sioux Lubricant for Nos. 1695, 1700, 1705, 1710, 1712 and 1770 Drivers and Nos. 1495, 1510, 1525, 1537, 1540, 1541, 1485, 1550, 1560, 1570, Electric Drills, Electric Saws, Electric Impact Wrenches.

1/2" HEAVY DUTY ELECTRIC DRILL



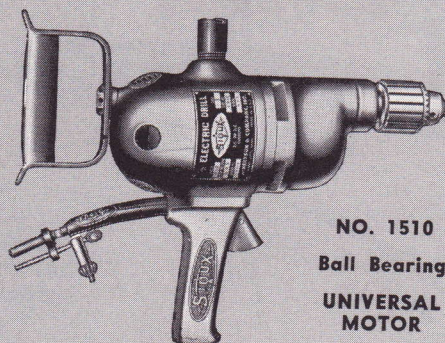
No. 1550

**Ball Bearing
UNIVERSAL
MOTOR**

No. 1550—Can also be furnished with No. 1 or No. 2 Morse Taper socket for taper shank drills, see Page 35. Can also be furnished with No Load 300 R.P.M., Full Load 180 R.P.M., \$8.00 extra.

Capacity in Steel 1/2" Capacity in Wood 1"
Overall length 17" Net weight 17 1/4 lbs.
Use Drill Stand No. 1555.

With Reversing Switch \$10.00 Extra.



NO. 1510

**Ball Bearing
UNIVERSAL
MOTOR**

1/2" STANDARD DUTY ELECTRIC DRILL

No. 1510—Standard Duty Electric Drill.

Capacity in steel 1/2" Capacity in wood 7/8"
Overall length 14 1/4" Net weight 11 lbs.
Can also be furnished with no-load 410 R.P.M., full-load 245 R.P.M. \$8.00 Extra.
Use Drill Stand No. 1514

With Reversing Switch \$10.00 Extra.

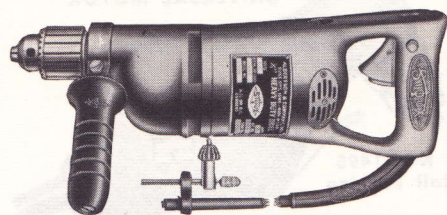
POWER SPECIFICATIONS

Cat. No.	1498	1510	1548	1550
Size	1/2	1/2	1/2	1/2
Gear Ratio	41.7 to 1	30.9 to 1	30.9 to 1	27.6 to 1
Load Speed Amp.	3.7	5.0	5.0	6.0
Volt	115	115	115	115
No Load Speed	400 R.P.M.	525 R.P.M.	525 R.P.M.	R.P.M. 525
H.P. and R.P.M. at Load Speed	3/16 275	27/64 370	27/64 370	7/16 325
Oz. Ft. Torque at Load Speed	45.0	95.0	95.0	108.0
H.P. and R.P.M. at Peak Load Speed	9/32 215	39/64 230	39/64 230	17/32 175
Oz. Ft. Torque Peak Load	108.0	222.0	222.0	252.0



**STANDARD
THE**

3/8" HEAVY DUTY ELECTRIC DRILL



NO. 1541
Ball Bearing
UNIVERSAL MOTOR

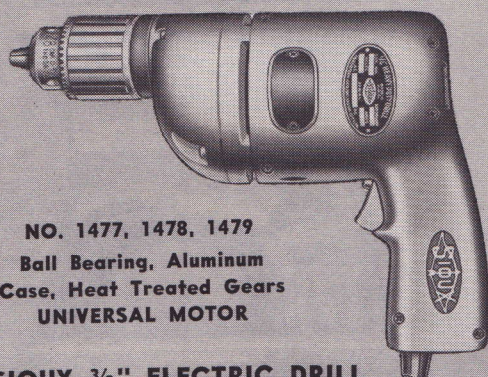
No. 1541—Heavy Duty 3/8" Electric Drill. Clamp handle is adjustable and affords perfect control. Capacity in steel up to 3/8". Capacity in hardwood up to 3/4". Length overall 14 1/2". Net weight 10 1/4 lbs.

Use Drill Stand No. 1530.

Can also be furnished with keyless chuck \$10.00 extra.

TOOLS

WORLD
OVER



NO. 1477, 1478, 1479
Ball Bearing, Aluminum
Case, Heat Treated Gears
UNIVERSAL MOTOR

SIoux 3/8" ELECTRIC DRILL

PISTOL TYPE

No. 1477—Pistol grip 3/8" heavy duty Electric Drill. Entirely new design allows inspection or replacement of motor brushes without partial or complete disassembly. Brushes located at fan position at front of drill, cooler running. 950 R.P.M. standard speed.

No. 1478—Same as 1477—Except 625 R.P.M. low speed.

No. 1479—Same as 1477—Except 1600 R.P.M. high speed.

For above models, use stand No. 1469.

No. 1477, 1478, 1479 also available with reversing switch by suffix "R" (example 1477 R) \$10.00 Extra.

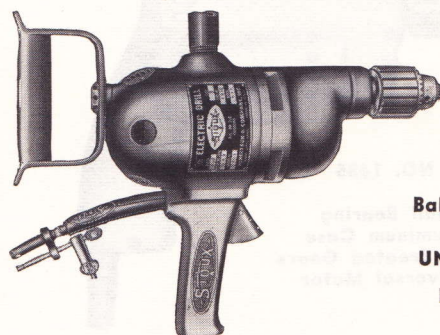
No. 1479 also available in speeds of 2500 R.P.M. or 3500 R.P.M. at \$5.00 extra.

3/8" - 5/16" ELECTRIC DRILLS



A Drill For Every Purpose

SIoux 3/8" and 5/16" HEAVY DUTY ELECTRIC DRILL



NO. 1517
NO. 1519

Ball Bearing
UNIVERSAL
MOTOR

No. 1517—Heavy Duty 3/8" Electric Drill. Capacity in steel up to 3/8". Capacity in hardwood up to 3/4". Length overall 14". Net weight 11 lbs.

Use Drill Stand No. 1514.

No. 1519—Heavy Duty 5/16" Electric Drill. Capacity in steel up to 5/16". Capacity in hardwood up to 5/8". Length overall 14". Net weight 11 lbs.

Use Drill Stand No. 1514.

No. 1517 or 1519 can also be furnished with keyless chuck \$10.00 extra.

POWER SPECIFICATIONS

Catalog Number	1517	1519	1541	1477	1478	1479
Size	3/8	5/16	3/8	3/8	3/8	3/8
Gear Ratio	17.1 to 1	13.1 to 1	17.1 to 1	23.3 to 1	35.5 to 1	13.6 to 1
Load Speed Amp.	5.0	5.0	5.0	2.8	2.8	2.8
Volt	115	115	115	115	115	115
No Load Speed	925	1250	925	950	625	1600
H.P. & R.P.M. at Load Speed	13/32 670 R.P.M.	13/32 860 R.P.M.	13/32 670 R.P.M.	13/64 574 R.P.M.	13/64 375 R.P.M.	13/64 960 R.P.M.
Oz. Ft. Torque at Load Speed	49.0	37.5	49.0	31.6	44.6	17.8
H.P. & R.P.M. at Peak Load	9/16 540 R.P.M.	9/16 500 R.P.M.	9/16 540 R.P.M.	17/64 430 R.P.M.	17/64 280 R.P.M.	17/64 720 R.P.M.
Oz.Ft. Torque at Peak Load	135.0	96.0	85.0	55.0	84.2	32.4

All Sioux Drills are equipped with three jaw chuck and key, three conductor N.E.M.A. cord and plug. Twist lock plug available at slight extra cost. Drills available in 230, 240 volt, same price.

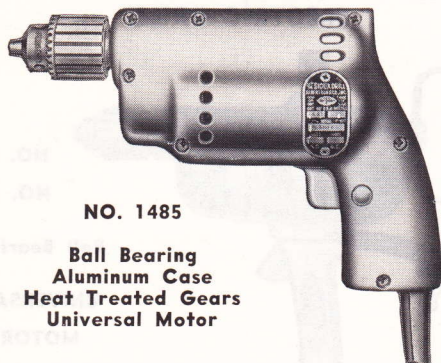
Information on special voltage and price available on request.



1/4" ELECTRIC DRILLS

A Drill For Every Purpose

SIoux 1/4" ELECTRIC DRILL



NO. 1485

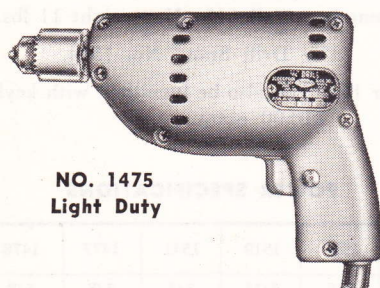
Ball Bearing
Aluminum Case
Heat Treated Gears
Universal Motor

Pistol Type Electric Drill. Well balanced, sturdy construction with plenty of power for general purpose drilling.

Capacity in steel 1/4" Hardwood up to 1/2"
Overall length 8" Net Weight 3 1/2 lbs.

Can also be furnished with 2100, 2500, 3500, or 5000 R.P.M., \$4.50 Extra.

SIoux 1/4" ELECTRIC DRILL



NO. 1475
Light Duty

No. 1475—A light-weight compact 1/4" drill. Ideal for mechanics tool kit.

Capacity in steel up to 1/4". Hardwood up to 1/2".
Overall length 7 1/2". Net Weight 3 1/4 lbs.

POWER SPECIFICATIONS

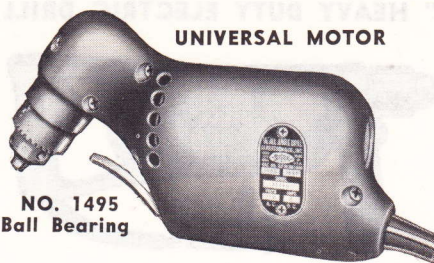
Cat. No.	1475	1485	1495
Size	1/4	1/4	1/4
Gear Ratio	7.1 to 1	12 to 1	12 to 1
Load Speed Amp.	1.5	1.4	1.4
Volt	115	115	115
No Load Speed	2250	1650	1650
H.P. & R.P.M. at Load Speed	5/64 1525 R.P.M.	3/32 1060 R.P.M.	3/32 1060 R.P.M.
Oz. Ft. Torque at Load Speed	4.9	6.9	6.9
H.P. & R.P.M. at Peak Load Speed	7/64 1050 R.P.M.	1/8 620 R.P.M.	1/8 620 R.P.M.
Oz. Ft. Torque at Peak Load	8.8	16.7	16.7

All Sioux Drills are equipped with three jaw chuck and key, three conductor N.E.M.A. cord and plug. Twist lock plug available at slight extra cost. Drills available in 230, 240 volt. Same price.

Information on special voltage and price available on request.

SIoux 1/4" ALL-ANGLE ELECTRIC DRILL

UNIVERSAL MOTOR



NO. 1495
Ball Bearing

The famous Sioux all-angle 1/4" drill fills the need for a small compact drill. Easy to carry, easy to use, it has no equal for getting into those hard-to-get-at places.

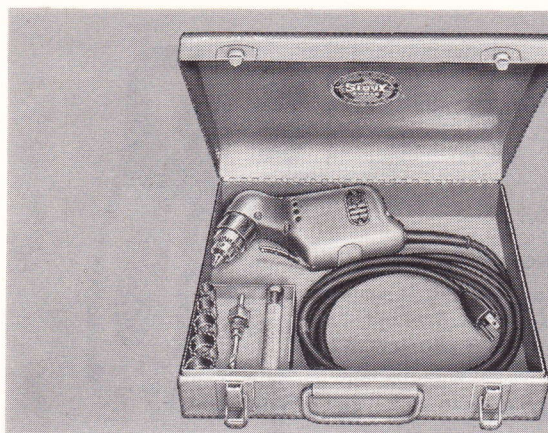
No. 1495—Ball Bearing, Universal Motor. Complete with 1/4" 3 jaw chuck and key, 3 conductor cord and plug.

The only drill especially designed for getting in close quarters. Length over all only 3 3/4 inches at chuck and gear case.

Chuck is mounted at 55 degree angle.

Capacity in steel 1/4" Hardwood up to 1/2"
Overall length 8 3/8". Net weight 3 1/2 lbs.
Also furnished with 2100, 2500 R.P.M. \$4.50 Extra.

No. 1495R—Same as 1495—with Reversing Switch.



SIoux 1/4" ALL-ANGLE DRILL KIT

No. 1495S—Includes the following:

- 1—No. 1495 Drill
- 1—No. 375 5/8" Hole Saw
- 1—No. 377 3/4" Hole Saw
- 1—No. 378 7/8" Hole Saw
- 1—No. 379 1" Hole Saw
- 1—No. 380 1 1/8" Hole Saw
- 1—No. 351 Arbor for Hole Saw
- 1—Set H.S. Drill Bits 7 Sizes 1/16" to 1/4" by 32nds
- 1—No. 328B Carrying Case

EXTENSION CORD

To avoid low voltage use the following Extension Cords

No. 1254—25 ft. Heavy Duty (No. 16 wire) Extension Cord, complete. Three conductor, third wire for ground.

No. 1254A—50 ft. length, otherwise same as No. 1254.

No. 1257—25 ft. Heavy Duty (No. 16 wire) 250 volt Extension Cord, complete. Three wire conductor, third wire for ground.

No. 1257A—50 ft. length, otherwise same as No. 1257.

No. 1258—25 ft. Heavy Duty (No. 14 wire) 115 volt Extension Cord, complete. Three conductor, third wire for ground.



STANDARD
THE

TOOLS

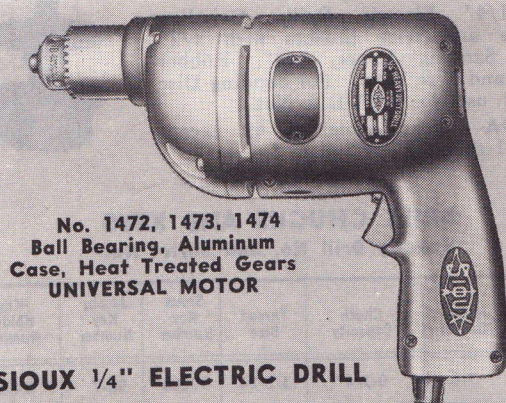
WORLD
OVER

PISTOL TYPE DRILLS

The Sioux Pistol Type Drills are super powered to provide all the Torque and power necessary for all operations where this type of drill is used. A speed for every need. Ball and roller bearing construction, with finest precision of gears and mechanical mechanism to give highest efficiency of electric motor and gear train.

All Sioux Drills available in 230, 240 Volt. Same Price. Information on special voltage and price available on request.

All Sioux Drills are complete with three jaw chuck, three conductor cord standard N.E.M.A. plug. Twist Lock Plugs Extra.



No. 1472, 1473, 1474
Ball Bearing, Aluminum
Case, Heat Treated Gears
UNIVERSAL MOTOR

SIoux 1/4" ELECTRIC DRILL

See Page 3 for New No. 1450 1/4" Air Drill

No. 1474—1/4", Low speed electric drill — 625 R.P.M. The new design allows inspection or replacement of motor brushes without partial or complete disassembly of the tool. Brushes located at fan position at front of drill, cooler running.

No. 1472—1/4", same as No. 1474, except standard speed 1600 R.P.M.

No. 1473—1/4", same as No. 1474, except medium speed 950 R.P.M.

Use drill stand No. 1469 on all above models.

All above units available with reversing switch by suffix "R" (example 1472 R) \$10.00 extra.

No. 1472—available in speeds of 2500 R.P.M. or 3500 R.P.M. at \$5.00 extra.

1/4" ELECTRIC DRILLS



A Drill For Every Purpose

SIoux 1/4" HEAVY DUTY ELECTRIC DRILL



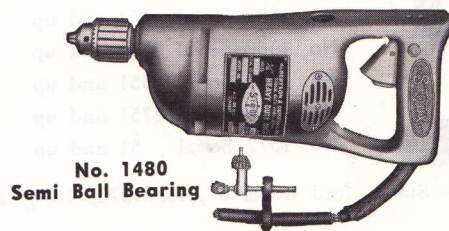
No. 1525

Ball Bearing UNIVERSAL MOTOR

No. 1525—Capacity in steel up to 1/4". Capacity in hardwood up to 9/16". Length overall 12". Net weight 7 1/4 lbs. Use drill stand No. 1530-A.

Can also be furnished with keyless chuck, \$7.00 extra. Available also with 2500 R.P.M., \$8.00 extra.

SIoux 1/4" SPECIAL DUTY ELECTRIC DRILL



No. 1480
Semi Ball Bearing

UNIVERSAL MOTOR

No. 1480—Capacity in steel up to 1/4". Capacity in hardwood up to 1/2". Length overall 11 1/4". Net weight 5 1/4 lbs. Use drill stand No. 1530-A.

Can be furnished with keyless chuck, \$7.00 extra.

POWER SPECIFICATIONS

Catalog Number	1472	1473	1474	1480	1525
Size	1/4	1/4	1/4	1/4	1/4
Gear Ratio	13.6 to 1	23.3 to 1	35.5 to 1	8.7 to 1	10.7 to 1
Load Speed	2.8	2.8	2.8	2.0	4.5
Amp.					
Volt	115	115	115	115	115
No Load Speed	1600	950	625	1600	1650
H.P. & R.P.M. at Load Speed	13/64 960 R.P.M.	13/64 575 R.P.M.	13/64 375 R.P.M.	7/64 1140 R.P.M.	5/16 1060 R.P.M.
Oz. Ft. Torque at Load Speed	17.8	31.6	44.6	7.9	31.0
H.P. & R.P.M. at Peak Load Speed	17/64 720 R.P.M.	17/64 430 R.P.M.	17/64 280 R.P.M.	5/32 790 R.P.M.	3/8 680 R.P.M.
Oz. Ft. Torque at Peak Load	32.4	55.0	84.2	16.8	45.0



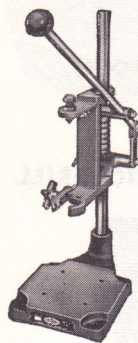
ELECTRIC DRILL ATTACHMENTS

STANDARD THE WORLD OVER

DRILL STANDS

No. 1469—Drill Stand for 1472, 1473, 1474, 1477, 1478, 1479 Drills. Height 23 1/2", Base 7" x 7", Feed travel 3 1/8" Increases the usefulness of the above drills by converting them to a drill press for heavy-duty work. Tool bracket is adjustable to height of work.

Weight—Stand only, 22 lbs.



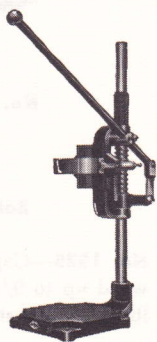
No. 1530-A — Stand, feed travel 3 1/2", for 1480, 1500, 1525, 1537, 1541, 1548 drills.

No. 1514—Stand, feed travel 4 1/8", for 1510, 1515, 1517, 1519 drills.



No. 1555—Stand, feed travel 6", for drills.

No. ES212 All
No. 1546 Serial 8501 and up
No. 1550 Serial 7501 and up
No. 1552 Serial 451 and up
No. 1560 Serial 5501 and up
No. 1562 Serial 351 and up
No. 1570 Serial 2751 and up
No. 1572 Serial 51 and up



No. 1580—Stand, feed travel 6", for 1575, 1578, 1579 drills.

POST DRILL STANDS

Attach to Post or Wall

No. 1564—Post stand, feed travel 6", for 1550, 1560 drill.

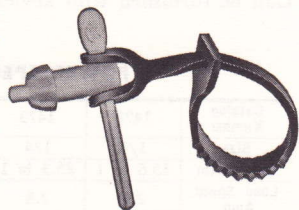
No. 1585—Post stand, feed travel 6", for 1575 drill.

RUBBER CHUCK KEY HOLDER

Attaches to electric cord by slipping over plug. Flexible rubber allows key to be turned many times to tighten chuck.

No. 14272—For Chucks up to 5/16" inclusive.

No. 14273—For chucks 3/8" up.



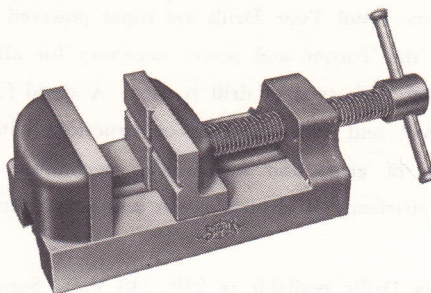
HORIZONTAL DRILL STANDS

No. 1535—Horizontal stand, for use in tire shops, for No. 1525 drill.

No. 1529—Horizontal stand, for 1480 drill.



SIOUX DRILL PRESS VISE



Precision Made, Surface Ground, For Sioux Drill Stands

For holding work while drilling, makes your drill stand more efficient.

No. 1553—Width of jaws, 3". Opening 3".

ADAPTOR PLUG

No. 18756—3 prong to 2 prong adaptor plug.

NO. 49 ARBOR, 3/8"-16 THREAD

For 1/4" Electric Drills. Grinding Wheels and Wire brushes with 1/2" hole. Sanding Cones, 3x3". Rubber Drum and Tire Rasps. For Sanding Disc Holder, use No. 524A Disc Nut.

No. 49A—Arbor, same as 49 except 5/8"-11 thread.



DRILL CHUCKS AND KEYS

Specify Drill No. and Serial No.

Sioux Chuck No.	Jacobs Number	Chuck Capacity	Thread Size	Sioux Key Number	Jacobs Key Number	Key Holder Number
21000	7-B	0-1/4"	3/8-24	30000	96-7	14272
21001	7-B	0-1/4"	1/2-20	30000	96-7	14272
21002	32-B	0-3/8"	1/2-20	30011	96-32	14273
21003	30-B	0-5/16"	1/2-20	30002	96-30	14272
21004	33-B	5/64"-1/2"	1/2-20	30011	96-32	14273
21014	34-B	0-1/2"	5/8-16	30020	96-3	14273
21015	3-B	1/8"-5/8"	5/8-16	30020	96-3	14273
21016	36-B	3/16"-3/4"	3/4-16	30031	96-4	14273
21019	1-B	0-1/4"	3/8-24	30202	96-1	14272
21021	33-B	5/64"-1/2"	5/8-16	30011	96-32	14273
21022	36-B	3/16"-3/4"	5/8-16	30031	96-4	14273
21079	Mc-2-AD	0-1/4"	3/8-24	30262	KG	14272
21085	2-B	0-3/8"	3/8-24	30231	96-2	14273

Chucks are provided with R. H. threads—to loosen, turn left. All chucks used on Sioux Drills are threaded type.

Insert chuck key in chuck, then with a lead or brass hammer give the key a sharp tap.

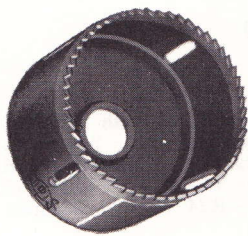


STANDARD
THE

HIGH SPEED STEEL HOLE SAWS



STANDARD THE WORLD OVER



Sioux High Speed Steel Teeth Hole Saws will cut holes from 5/8" to 6" in diameter, in free machining material, depth of cut 1 1/8". Steel, round or plates; brass; aluminum; bronze; wood, or plastic, may be cut with these saws. Alloy or stainless steels must be cut with very slow speed, about 80 RPM for 2 1/4" saw.

A High Speed Steel teeth welded to chrome-vanadium saw body giving the maximum life and cutting ability.

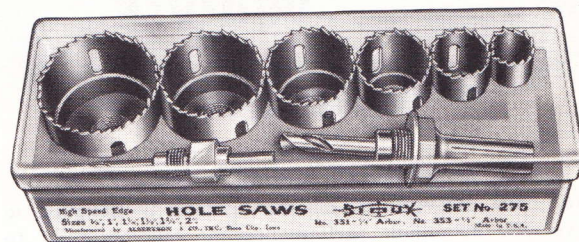
Saws may be used in electric drills, drill press, or lathe.

Hole Saws Only (Without Arbors)

Depth of cut 1 1/8".

	Size	Pipe Tap Size	Conduit Size	Arbor to Use
No. 375	5/8" dia.	....	....	*No. 352
No. 375-A	1 1/16" dia.	....	....	*No. 352
No. 377	3/4" dia.	....	3/8"	*No. 352
No. 377-A	1 3/16" dia.	....	....	*No. 352
No. 378	7/8" dia.	3/4"	1/2"	*No. 352
No. 378-A	1 5/16" dia.	....	....	*No. 352
No. 379	1" dia.	....	....	*No. 352
No. 379-A	1 1/16" dia.	....	....	*No. 352
No. 380	1 1/8" dia.	1"	3/4"	*No. 352
No. 380-A	1 3/16" dia.	....	....	No. 353
No. 381	1 1/4" dia.	....	....	No. 353
No. 382	1 3/8" dia.	....	1"	No. 353
No. 382-A	1 7/16" dia.	....	....	No. 353
No. 383	1 1/2" dia.	1 1/4"	....	No. 353
No. 384	1 5/8" dia.	....	....	No. 353
No. 385	1 3/4" dia.	....	1 1/4"	No. 353
No. 386	1 7/8" dia.	....	....	No. 353
No. 387	2" dia.	....	1 1/2"	No. 353
No. 410	2 1/16" dia.	....	....	No. 353
No. 388	2 1/8" dia.	2"	....	No. 353
No. 389	2 1/4" dia.	....	....	No. 353
No. 390	2 3/8" dia.	....	....	No. 353
No. 391	2 1/2" dia.	....	2"	No. 353
No. 412	2 9/16" dia.	....	....	No. 353
No. 392	2 5/8" dia.	2 1/2"	....	No. 353
No. 393	2 3/4" dia.	....	....	No. 353
No. 394	2 7/8" dia.	....	....	No. 353
No. 395	3" dia.	....	2 1/2"	No. 353
No. 396	3 1/8" dia.	....	....	No. 353
No. 397	3 1/4" dia.	3"	....	No. 353
No. 398	3 3/8" dia.	....	....	No. 353
No. 402	3 1/2" dia.	....	....	No. 350
No. 403	3 5/8" dia.	....	3"	No. 350
No. 404	3 3/4" dia.	....	....	No. 350
No. 405	3 7/8" dia.	....	....	No. 350
No. 415	4" dia.	....	....	No. 350
No. 417	4 1/8" dia.	....	....	No. 350
No. 418	4 1/4" dia.	....	....	No. 350
No. 411	4 3/8" dia.	....	....	No. 350
No. 413	4 1/2" dia.	....	....	No. 350
No. 414	4 9/16" dia.	....	....	No. 350
No. 431	4 5/8" dia.	....	....	No. 350
No. 416	4 3/4" dia.	....	....	No. 350
No. 433	5" dia.	....	....	No. 350
No. 435	5 1/2" dia.	....	....	No. 350
No. 437	6" dia.	....	....	No. 350

*Use 351 Arbor for 1/4" Electric Drills where 352 Arbor is shown.

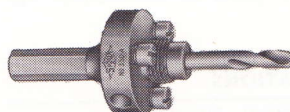


NO. 275 HOLE SAW SET

Consists of 3/4", 1", 1 1/4", 1 1/2", 1 3/4", 2" Hole Saws and No. 351—1/4" Arbor, No. 353—1/2" Arbor. Set complete in plastic box.

SIoux ARBORS

No. 350A — Heavy Duty Arbor with pilot drill for Sioux Hole Saws, 1 3/4 in., and up. For production service. Use with 1/2 in. and larger electric drills.



No. 349—12" Extension to be used with No. 350A arbor.



No. 351—Sioux Arbor, for hole saws, 5/8 to 1 1/8 in., inclusive. Used with 1/4 in. and larger electric drills.

No. 351-A—1/4" Pilot Drill only for No. 351 Arbor.



No. 352—Arbor with pilot drill for Sioux Hole Saw, 5/8 in. up to 1 1/8 in., inclusive. Used with 1/2 in. and larger electric drills.

No. 353—Arbor with pilot drill for Sioux Hole Saws, 1 1/4 inch and over.

No. 354—1/4" Pilot Drill only for Nos. 350, 350A, 352 and 353 arbors.

No. 34218—Adaptor Threaded Bushing for No. 351 Arbor to take saws 1 1/4" and over.

SIoux WIRE END BRUSHES



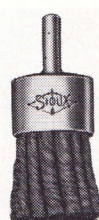
No. 225



No. 226
No. 227
No. 228



No. B-66
No. B-67



No. 231
No. 232

Used with 1/4" electric and air drills. For Internal Cleaning, Carbon Removing, Brushing and Polishing of those Hard-To-Reach Places such as Recesses, Combustion Chambers, etc.

No.	Type	Size	Wire Size	Shank	Ship. Wt.
225	Flared end	1 1/2"	.020	1/4"	1/4 lb.
226	Solid wire filled	1x1"	.020	1/4"	1/4 lb.
227	Solid wire filled	3/4x1"	.020	1/4"	1/4 lb.
228	Solid wire filled	1/2x1"	.020	1/4"	1/4 lb.
231	Knot Type	1 x 1 1/8"	.014	1/4"	1/4 lb.
232	Knot Type	1 x 1 1/8"	.020	1/4"	1/4 lb.
B-66	Hollow center	1 1/4x1 3/8"	.063	1/4"	1/2 lb.
B-67	Hollow center	1 1/4x1 3/8"	.039	1/4"	1/2 lb.



ELECTRIC GRINDER

9 INCH HEAVY DUTY

DEPRESSED CENTER WHEEL

No. 1270 Heavy-Duty Electric Grinder is designed to give you maximum performance in weld removal. In steel fabrication you will find the No. 1270 an outstanding time and labor saver.

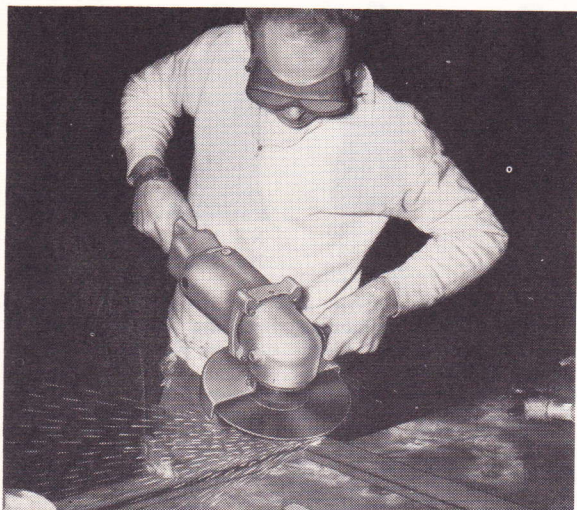
This new grinder is an indispensable unit where heavy grinding or sanding of large areas are required. Easy to operate, new improved heavy-duty safety "momentary" switch; ruggedly built to give years of trouble-free operation.

SPECIFICATIONS

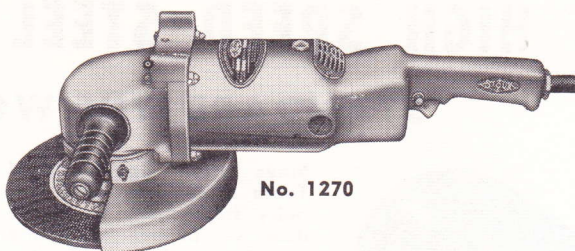
	MODEL NUMBER		
	1270	1195	1190
Speed	5000	4250	4750
H.P.	2	1 1/16	5/8
Net Weight	20 Lbs.	20 1/2 Lbs.	18 Lbs.
Thread Size of Arbor	5/8"-11	5/8"-11	1/2"-13
Length	19 3/8"	24 1/2"	23 1/2"
Flared Cup Wheel Size	6"x4 3/4"x2"		
Straight Wheel		6"x1"x5/8"	5"x3/4"x1/2"
Depressed Wheel Size	9"		
Wire Brush Size	6" Cup		
Sanding Disc Size	9"		
Amps	13	8	7
Volts	115	115	115

See Page 20 for Depressed Center & Flared Cup Grinding Wheels

See Page 21 for Wire Brushes



The No. 1270 Grinder shown removing difficult welds.



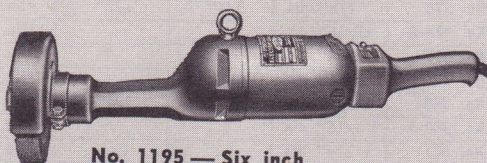
No. 1270

No. 1270—Heavy-Duty Grinder complete with No. 510 basic holder which includes backing pad, 3/8" hex wrench, lock nut and 2 spacing washers, adjustable guard No. 2319 for 9" depressed center wheel, 1/4" thick 9" depressed center wheel No. 904X—R24 and 2 1/8" open end wrench No. 2304.

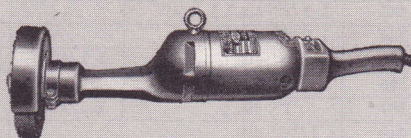
No. B-1270—Heavy-Duty Grinder complete with 6" revolving cup guard No. 2324 for 6" Flared Cup Wheel, 6" x 4 3/4" x 2" Flared Cup Wheel No. 587, lock nut and open end wrench No. 2304.

No. C-1270—Heavy-Duty Wire Brush complete with 6" cup wire brush No. 823, No. 2304 open end wrench and lock nut.

No. D-1270—Heavy-Duty Sander complete with Abrasive Disc Holder No. 539 which includes No. 535 Basic Disc Holder, 536 Disc Nut, No. 549—9" Disc Backing Pad, 3/8" Hex Wrench and three 9" Industrial Abrasive Discs and No. 2304 open end wrench.



No. 1195 — Six inch



No. 1190 — Five inch



STANDARD
THE

HORIZONTAL PORTABLE GRINDERS

No. 1195—Six inch, complete with adjustable wheel guard, one grinding wheel and three conductor cable. Wheel size 6 x 1 x 5/8" hole. 8 amps at 115 volt. Speed 4250 R.P.M. Ball bearing throughout. Aluminum case, length overall, 24 1/2". Net weight, 20 1/2 lbs.

(32 volt not available)

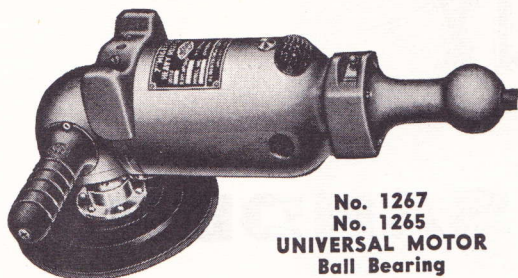
No. 1190—Five inch, complete with adjustable wheel guard, one grinding wheel and three conductor cable. Wheel size 5 x 3/4 x 1/2" hole. 7 amps at 115 volt. Speed 4750 R.P.M. Ball bearing throughout. Aluminum case, length overall, 23 1/2". Net weight, 18 lbs.

(32 volt not available)

See Page 20 for Grinding Wheels

See Page 29 for Horizontal Bench Stand

7" HIGH SPEED HEAVY DUTY SANDER



**No. 1267
No. 1265
UNIVERSAL MOTOR
Ball Bearing**

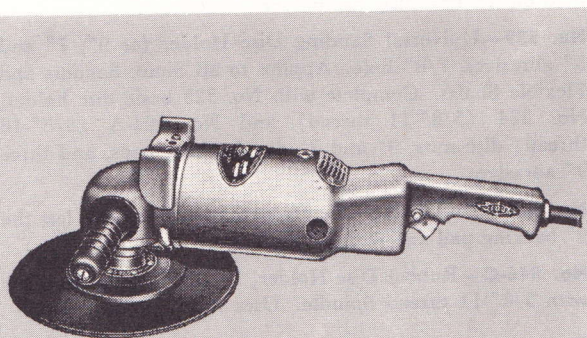
Equipped with No. 527 Universal Disc Holder for 7 in. and 5 in. Abrasives, 7/8 in. hole.

No. 1267—Complete with one No. 527 Disc Holder and 3 Abrasive Discs, 7/8" hole. 3 conductor cable and plug, (third wire for ground). 115 volt, 9 amperes. No load speed 4250 R.P.M. Spindle thread 5/8"-11.

No. 1267 HS—Same as 1267 only with 5000 R.P.M.

7" SPECIAL ELECTRIC SANDER

No. 1265—Complete with one No. 527 Disc Holder for 7" and 5" Abrasives. 3 Abrasive Discs, 7/8 in. hole. 3 Conductor cable and plug, (third wire for ground). 115 volt, 5 amperes. No load speed 3500 R.P.M., spindle thread 5/8"-11.



**No. 1250
Ball Bearing
UNIVERSAL MOTOR**

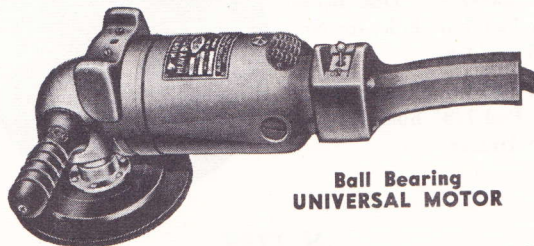
9" HIGH SPEED HEAVY DUTY SANDER

Equipped with No. 529 Universal Disc Holder for 9 in., 7 in. and 5 in. Abrasives. 7/8" hole.

No. 1250—Heavy Duty, complete with one No. 529 Disc Holder and 3 Abrasive Discs, 7/8" hole. 3 conductor cable and plug, (third wire for ground). 115 volt, 10 amperes. No load speed 5000 R.P.M., spindle thread 5/8"-11.

No. B1250—Same as above except with Ball Grip.

9" STANDARD DUTY SANDER



**Ball Bearing
UNIVERSAL MOTOR**

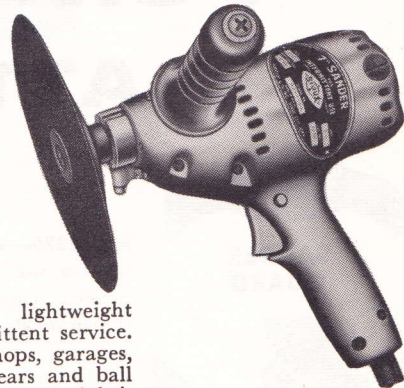
No. 1259 — Complete with one No. 529 Disc Holder and 3 Abrasive Discs, 7/8" hole. 3 conductor cable and plug, (third wire for ground). 115 volt, 9 amperes. No load speed 4250 R.P.M. Spindle thread 5/8"-11.

No. 1259 HS—Same as 1259 only with 5000 R.P.M.

PORTABLE ELECTRIC SANDERS

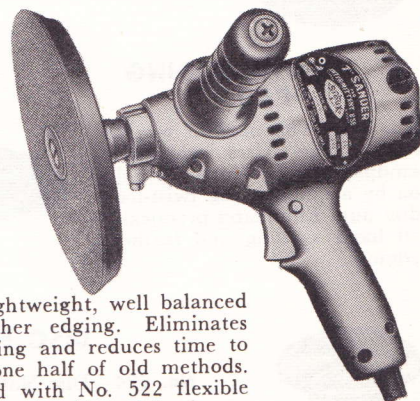


7" LIGHT WEIGHT ELECTRIC SANDER



No. 1256 — A lightweight sander for intermittent service. For small jobs, shops, garages, etc. No oiling, gears and ball bearings are permanently lubricated. Equipped with a spindle lock for quick changing of discs. 4 amps. Spindle thread 5/8"-11.

8" FEATHER EDGING SANDER



No. 1253—A lightweight, well balanced sander for feather edging. Eliminates most hard sanding and reduces time to approximately one half of old methods. Comes equipped with No. 522 flexible rubber backing pad with quick change twist lock disc nut. No load speed 1400 R.P.M.

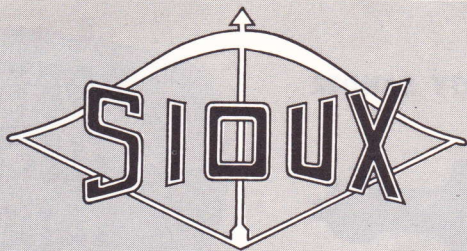
SPECIFICATIONS

Unit No.	1259	1250	1265	1267	1256	1253
Size	9"	9"	7"	7"	7"	8"
Duty	Standard	Heavy	Light	Heavy	Intermittent	Light
Horse Power	1.3	1.5	3/4	1.3	5/16	5/16
No Load Spindle Speed	4250	5000	3500	4250	3500	1400
Spindle Thread	5/8"-11	5/8"-11	5/8"-11	5/8"-11	5/8"-11	5/8"-11
Overall Length	16"	17 1/2"	14 1/2"	15"	8"	8"
Equipped With Holder	529	529	527	527	527	522
Net Weight	13	17	11	13	7 1/2	7 1/2
Shipping Weight	21	27	20	21	10	10

Above Available in 230 Volt.

TOOLS

WORLD
OVER

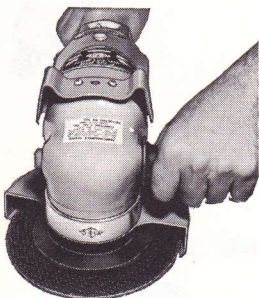


PORTABLE SANDER ATTACHMENTS



**SANDER
GUARD**

No. 2325—7"—Guard Assembly for use with No. 510 Depressed Center Disc Holder shown on Page 29.

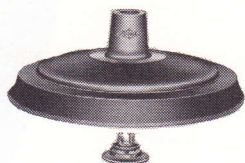


No. 2328—Same as above except 9".

See page 20 for Depressed Center Wheels.

8" FEATHER-EDGING PAD

No. 522—The modern way to feather-edge. Uses inexpensive sandpaper discs which are held on by a quick-acting twist-lock disc nut. Eliminates practically all hand sanding and feather-edging.



DISC NUTS

No. 524—Disc Nut, 5/8"-11 thread.

No. 524-A — Disc Nut, 3/8"-16 thread, for No. 525 holder.



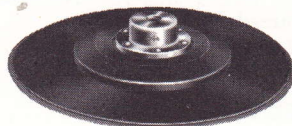
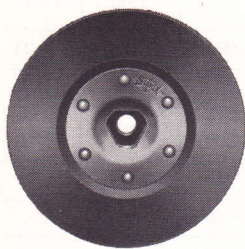
ADAPTORS

No. 854—5/8"-11 Thread reduces to 3/8"-16 Thread.

No. 34324—3/8"-16 Thread increases to 5/8"-11 Thread.

BASIC DISC HOLDER

No. 525—5" Basic Disc Holder with Nos. 524—5/8"-11 thread and 524-A—3/8"-16 thread—disc nuts for abrasives with 7/8" hole. Applies to all Sioux Sanders and Flexible Shafts.



SIoux UNIVERSAL SANDING DISC HOLDER

With Phenol Disc Pads for 5", 7" and 9" Sioux Abrasive Discs

An economical combination. When the abrasives are worn off on the outside surface, they can be trimmed down and used on the next size disc holder.

No. 529—Universal Sanding Disc Holder for 9", 7" and 5" abrasives, 7/8" hole. Applies to all Sioux Sanders and Flexible Shafts. Complete with No. 525 basic disc holder, No. 524 (5/8"-11 thread) and No. 524-A (3/8"-16 thread) disc nuts, 9" and 7" disc backing pads, and three 9" abrasives.

No. 527—7" Sanding Disc Holder, same as above, less the 9" backing pad and with 7" abrasives.

No. 846-C—Rubber Disc Holder, 7", for all Sioux Sanders with 5/8"-11 thread Spindle. Uses 7/8" hole abrasive.

FOR SANDERS USING 1/2" HOLE ABRASIVES

3/8"-16 Thread Spindle

No. 856-A—Center Nut for 859 Holder, using 1/2" hole abrasives.

No. 859—Basic Holder for 1/2" hole abrasives.

No. 859-9—9" Phenol Disc Pad for 859 holder.

No. 859-7—7" Phenol Disc Pad for 859 holder.

DISC BACKING PADS

No. 525-7—7" Disc Backing Pad 7/8" hole, for No. 525 Holder.

No. 525-9—9" Disc Backing Pad 7/8" hole, for No. 525 Holder.



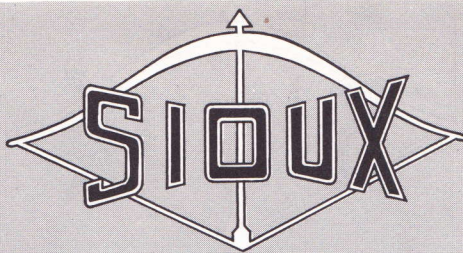
H TYPE HEAVY DUTY PADS

Disc Backing Pads are available in extra heavy material. Use above catalog number suffixed by letter "H".



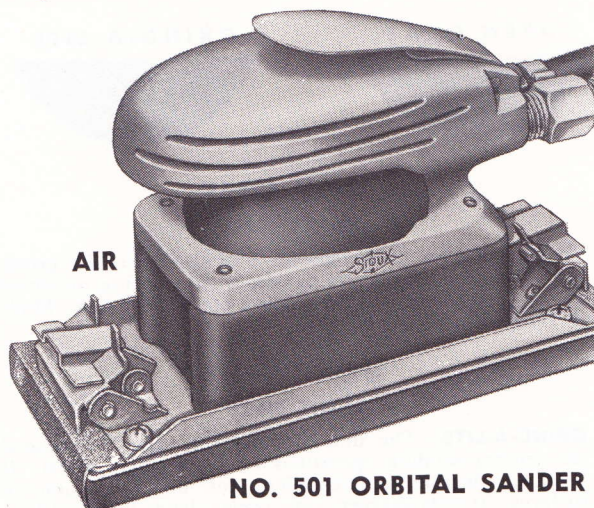
STANDARD
THE

For Additional Sander Attachments see Page 29



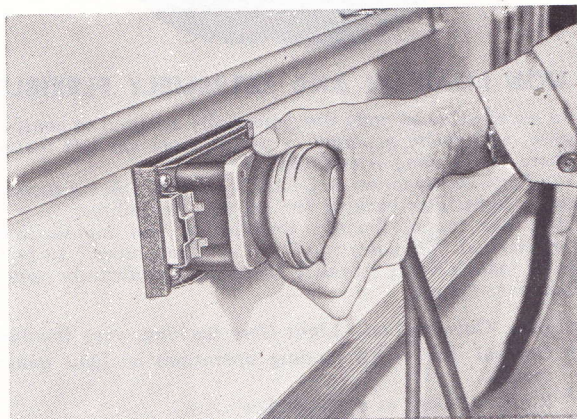
AIR AND ELECTRIC FLAT SANDERS

- More Powerful • Gives Superior Finish • Minimum Vibration • Better Control • Wet or Dry Sanding
- Perfect Balance for Feather Edging • Less Air Required • Light Weight



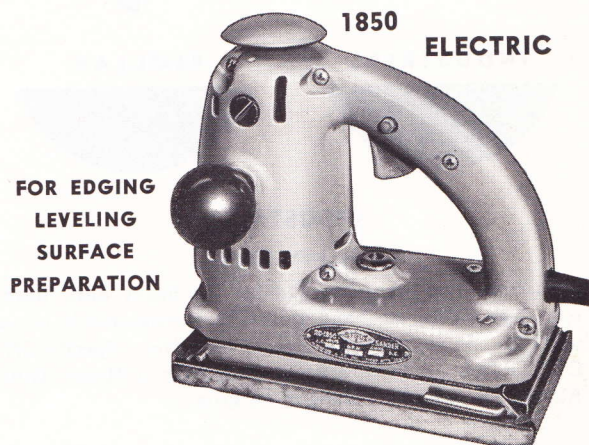
NO. 501 ORBITAL SANDER

Equipped with 6 foot exhaust hose that carries exhaust motor lubricant away from work. 6 foot leader hose also supplied. Pad size $2\frac{15}{16}$ " x $6\frac{3}{8}$ ", abrasive size 3" x 8". Uses standard 8" x 11" paper, 4 sheets can be cut from this size with practically no waste. The sander is designed to best fit the hand so perfect touch and control is assured. Palm switch for instant action. Weighs 3 lb. 10 oz. Speed 6,000 cycles per minute, $\frac{3}{16}$ " circular action. Hose connections $\frac{1}{4}$ " pipe thread. Average air consumption $3\frac{1}{4}$ cubic feet. Recommended air pressure approximately 75 lb. PSI. See catalog page 25 for air controls and hose.



The Sioux Orbital Sander gets into closest places and besides saving hours of time makes tedious sanding easy.

OSCILLATING ORBITAL ACTION SANDER BALL BEARING



FOR EDGING
LEVELING
SURFACE
PREPARATION

FAST, EASY ABRASIVE CHANGING

NO. 1850 SPECIFICATIONS

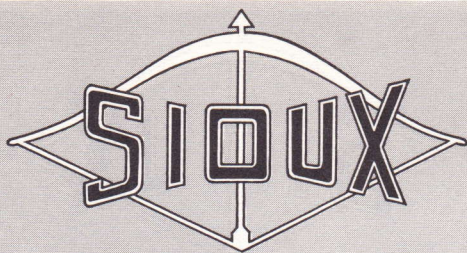
Sanding Surface $3\frac{5}{8}$ " x $7\frac{1}{4}$ "; Bearings, Ball; Switch, Momentary, with lock; Speed, 4000 Cycles per minute; Length, $7\frac{1}{4}$ Inches; Width, $3\frac{5}{8}$ Inches; Height, $7\frac{1}{8}$ Inches; Weight, 6 pounds net; Voltages, 115, available 230 volt, same price; Abrasives, 3 Sheets Furnished With Unit; Abrasive size $3\frac{5}{8}$ " x 9 (one-third standard sheet). Working at 4000 cycles per minute, the SIOUX Orbital Sander produces fine finishes on all woods, metals, fibres, etc. where hand sanding is usually employed.



The Sioux Electric Orbital Sander being used for general purpose sanding and finishing.

TOOLS

WORLD
OVER



RESIN BOND ABRASIVE DISCS

cut fast, run cool!

INDUSTRIAL



INDUSTRIAL

HEAVY FIBRE

Industrial style Abrasives suitable for heavy duty work, reducing Welds, etc., and where heat generated is not a problem. Same price as regular abrasives. Specify INDUSTRIAL on your orders where such a Heavy Duty Abrasive is required. Made in all grits.

REGULAR



REGULAR STANDARD FIBRE

These are shipped on all orders unless otherwise specified. Built on lighter fibre than industrial abrasives and are intended for body work where light gauge metal is used, and heat generated by heavier type industrial would cause warpage or metal expansion. Made in all grits.

OPEN COAT



OPEN COAT

HEAVY FIBRE

Open coated for paint removal, and also for cooler grinding on fenders and door panels, wood-working or where an abrasive is required that should not load or clog. Made in 16, 24, 30, 36, 50, 60, grits.

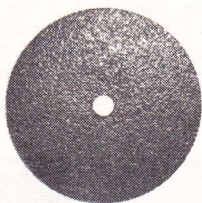
GRIND-A-LITE



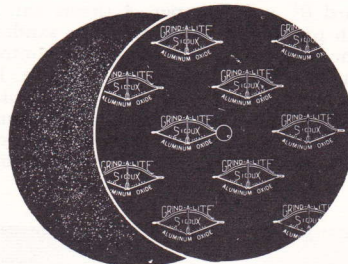
GRIND-A-LITE

LIGHT FIBRE

GRIND-A-LITE—The new Grind-A-Lite disc is intended for general sanding operations on light gauge metal. It is light, flexible and excellent for use on contoured surfaces. It cuts sharper, runs cooler, loads less, and lasts longer than most other discs. Made in 24 through 150 grits.



Packed 25 Discs to a Carton.



NON LOADING AND EXTREMELY FLEXIBLE

An excellent auto body disc, especially adapted to contour work, and really superior in performance on soft metals where non-loading is essential.

The basic construction of GRIND-A-LITE Discs incorporates a light fibre backing for extreme flexibility.

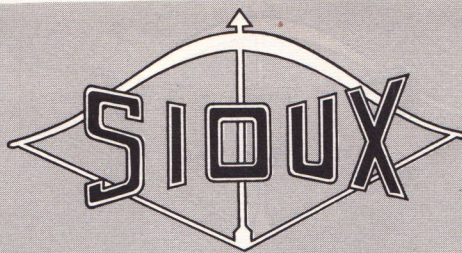
They are tough, flexible, long-lasting and non-loading. GRIND-A-LITE Discs run "cool as a cucumber." In fact, all of today's Sioux Abrasive Discs run significantly cooler than ever before.

- Non-loading for sanding old paint from auto bodies.
- Cooler and faster cutting with less sanding effort.
- Continuous cutting action not affected by grinding heat.
- Cuts faster — lasts longer.
- Toughness for sanding under all conditions.
- Flexibility for curved and contour sanding.

- Basic Construction—Light fibre backing, very flexible.
- General use — All sanding operations on light gauge metals.
- Run — "Cool as a Cucumber"
- Grit Sizes Available — 24 through 150 only (not available in open coat)
- Type of Grit — Red aluminum oxide.
- Identification — White printing on green backing



**STANDARD
THE**



RESIN BOND ABRASIVE DISCS

RESIN BOND - TEMPERED ALUMINUM OXIDE GRAIN FOR MAXIMUM ACTION

Most Economical and Most Profitable for Every Purpose

9 1/8" Diameter 7/8" Hole or 1/2" Hole			7" Diameter 7/8" Hole or 1/2" Hole			Specify Type Wanted			
No.	Grit	Ship Wt. Carton	No.	Grit	Ship Wt. Carton	Type			
9	16	10 lbs.	7	16	6 lbs.	Industrial	Regular	Open Coat	
9	24	8 1/2 lbs.	7	24	4 3/4 lbs.	Industrial	Regular	Open Coat	Grind-A-Lite
9	30	7 lbs.	7	30	4 1/4 lbs.	Industrial	Regular	Open Coat	
9	36	6 3/4 lbs.	7	36	4 lbs.	Industrial	Regular	Open Coat	Grind-A-Lite
9	50	5 lbs.	7	50	3 lbs.	Industrial	Regular	Open Coat	Grind-A-Lite
9	60	5 lbs.	7	60	3 lbs.	Industrial	Regular	Open Coat	Grind-A-Lite
9	80	3 lbs.	7	80	2 lbs.	Industrial	Regular		Grind-A-Lite
9	100	3 lbs.	7	100	2 lbs.	Industrial	Regular		Grind-A-Lite
9	120	3 lbs.	7	120	2 lbs.	Industrial	Regular		Grind-A-Lite
9	150	3 lbs.	7	150	2 lbs.	Industrial	Regular		Grind-A-Lite

BE SURE TO SPECIFY TYPE AND HOLE SIZE — DISCS PACKED 25 TO A CARTON.

Slitted Discs, and also with cut out slots are available on request

Special Disc Available:

1. For Stainless Steel or other Industrial Disc Applications where a softer bond is required. To order suffix (Ind.) by X-1.
2. For Non-Ferrus Materials all the Standard Disc can be supplied with Silicon Carbide Grain. To order suffix type by Sil. Carb.

SIoux HOLE PUNCH

No. 236—Hole Punch for abrasive discs. Cuts the hole from 1/2 in. to 7/8 in.

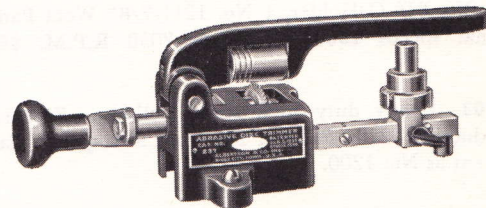
No. 236-3—Die only for No. 236.

No. 236-5—Punch Cutter only for No. 236.

GREASELESS SIoux ABRASIVE LUBE

No. 1332—1 lb. Stick. The Best Product for lubricating abrasive disc or other abrasive materials to prevent material from sticking to or capping over the top of grains. Makes for longer life, smoother and faster cutting. Non greasy and contains no fats, oils, waxes or greases.

SIoux ABRASIVE TRIMMER



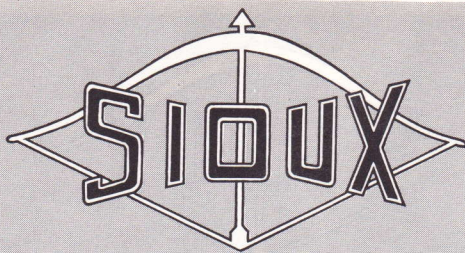
No. 237—Sioux Abrasive Trimmer

No. 237-A.....Extra Cutter for No. 237

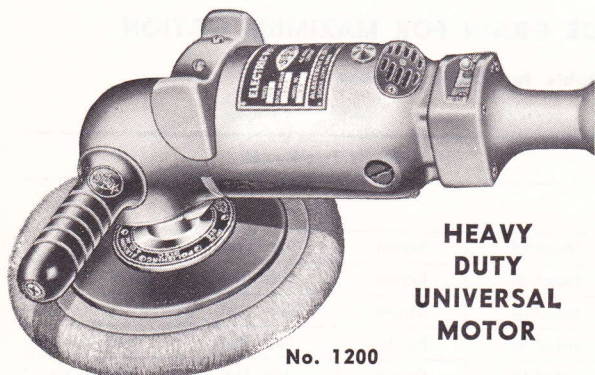
No. 237-B.....Extra Roller for No. 237

Cuts 9" Down to 7"—7" Down to 5"—5" Down to 3" 1/2" or 7/8" Hole

A dependable, economical, long-life, easily operated trimmer. Save on the cost of sanding discs. When the abrasive is worn off of the outside surface, trim down and use on the next size disc holder. Quickly and easily cuts the sanding discs round and in perfect balance for smooth, even sanding. The hard steel "nicked" cutter revolves against a mild steel roller and cuts the disc without injury to the trimmer.



PORTABLE POLISHERS



**HEAVY
DUTY
UNIVERSAL
MOTOR**

No. 1200

PERFECT-BALANCE BALL BEARING

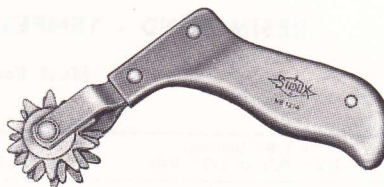
Permanently lubricated, no further lubrication required; gear case and armature ball-bearings are permanently lubricated and sealed. The Sioux No. 1200 is the ideal polisher for shops and service stations where a heavy duty polishing unit is required. The balance and touch of the Sioux 1200 makes it the favorite of all polishers.

No. 1200—Universal Motor, A.C., D.C.; 115 volt, 5 amperes; no load speed 1700 R.P.M. Standard; Spindle thread 5/8"-11; diameter polishing pad, 8 in. Equipped with universal 115 volt A.C. and D.C. motor, 3-conductor cord, 1 No. 846-C Holder, 1 No. 1211-7/8" Wool Pad.

*Optional speeds 1500 R.P.M. or 2050 R.P.M. \$6.50 extra.

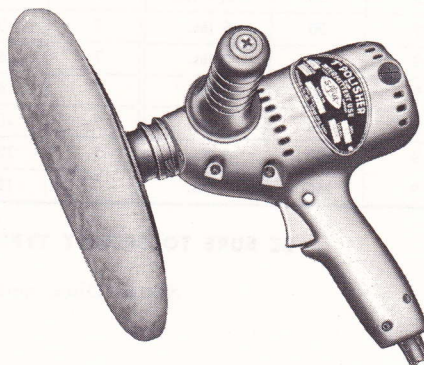
No. 1203—Heavy duty high speed polisher. Especially for production. 2700 R.P.M., 115 Volt, 9 Amperes. Same equipment as No. 1200.

**NO. 1214
CLEANING
TOOL**



No. 1214 Cleaning Tool—For Polishing Pads and Bonnets. Cleans, Fluffs and Vitalizes. Clean the polishing dirt from pad rapidly and efficiently. Fluffs the packed wool to throw out the accumulation. Eliminates the unnecessary washing, and prolongs the life of pads or bonnets.

**LIGHT
WEIGHT
ELECTRIC
POLISHER**



No. 1202—A light weight polisher for intermittent service, well balanced and light and easy to handle, for use in the smaller shops and garages. Equipped with a spindle lock for quick changing of polishing pads. Ideal as an auxiliary polisher, and for waxing operations. Specifications below. 115 volt, 4 amperes. Equipped with 1 No. 846C Holder, 1 No. 1211 Wool Pad.

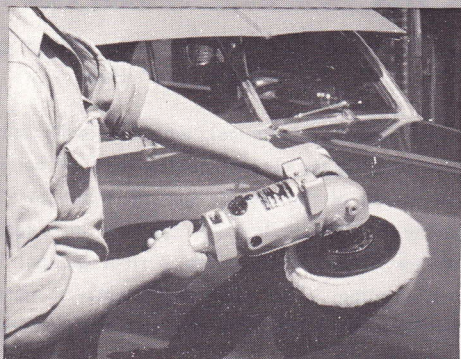
SPECIFICATIONS FOR POLISHERS LISTED ABOVE

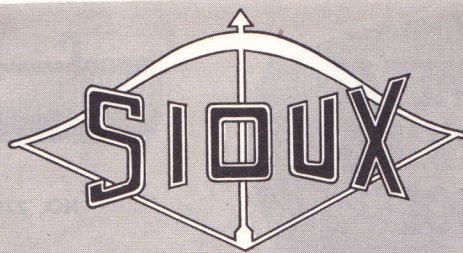
Unit No.	1202	1200	1203
Pad Size	8"	8"	8"
Duty	Intermittent	Standard	Heavy Duty
No. Load Spindle Speed	2000	1700	2700
Spindle Thread	5/8"-11	5/8"-11	5/8"-11
Overall Length	8"	15"	15 1/2"
Equipped With Holder	846C	846C	846C
Net Weight	8	11 1/4	13 1/2
Ship. Weight	11	19	21

Above Available in 230 Volt. Are Not Available in 32 Volt.



**STANDARD
THE**





POLISH AND POLISHING EQUIPMENT

SIoux AUTOMOTIVE POLISH

For Machine or Hand Polishing



Quickly and thoroughly cleans and polishes all lacquers, synthetic, enamel and acrylic surfaces that have become dull with age and traffic film.

Cleaning and polishing in one operation, it restores the brilliant lustre and fullness of color of the original finish.

Contains no acids or grits or any other injurious ingredients. Can be safely used regularly without injury to fine striping or finish.

No. 1215—Sioux Auto Polish, 1 pint. Packed 12 to a case.

No. 1210—Sioux Auto Polish, 1 gallon. Packed 6 gallons to the case.

SIoux-VENIR

Protects and Preserves Polished Surfaces.

For Machine and Hand Use

For Autos, Aircraft, Woodwork, Furniture, Etc.

Comprises a plastic base combined with durable compounds which produce a hard glazed finish of lasting beauty.

No. 1221—Sioux-Venir, 1 pint.
Packed 12 to a case.



No. 1222—Sioux-Venir, gallon. 6 Gallons to the case.

SIoux MACHINE RUBBING COMPOUND



An improved compound especially prepared for machine rubbing new lacquer, also for cleaning heavily coated scum on used cars.

Gives the surface a finish unscratched and greaseless, preserving the fullness of color.

No. 20 1 pint
No. 21 1 quart
No. 23 1 gal.

SIoux WASH MITT



No. 1213—Wash mitt. Made of special Dynel and Wool with a neoprene rubber coated inside. Tough and long wearing, will not crack or mat, keeps soft and pliable at all times, wet or dry.

Weight 6 oz.

RUBBER POLISHING PAD HOLDER



No. 846-C—Rubber Holder for Polishing Pads with 7/8" hole. Made of high grade fabric rubber with a steel hub and No. 524 center nut with 5/8"-11 thread to fit the Current Electric Polisher and Flexible Shafts.

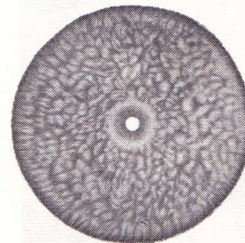
No. 846—Rubber Disc Holder, 7". For all Sioux Units with 3/8"-16 thread spindle. Uses 1/2" hole attachment.

No. 856A—Disc Nut, 3/8"-16 Thread, for No. 846 Holder.

No. 23581—Same as 846 only for 7/8" hole attachment 3/8"-16 thread.

No. 524A—Disc Nut, 3/8"-16 Thread, for No. 23581 Holder.

WOOL POLISHING PAD



No. 1211—7/8" Hole, 8" Diameter. The finest for all car polishing. Made with a deep, thick, tough and long lasting wool nap on a strong canvas back, runs true and smooth in operation and produces a superior finish. Recommended for Polishing, and Waxing. A wonder on patch work, blends new finish in with old and completely hides the patch. For No. 846 Holder.

1/2" hole also available. Weight 4 oz.

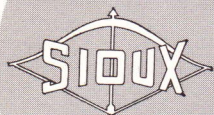
WOOL POLISHING BONNET

No. 843—Wool Bonnet, same material as No. 1211, except tie on Bonnet type with center hole for centering on holder. For 846 or 846C Holder specify 1/2" or 7/8" center hole. Weight 5 oz.

WOOL RUBBING PAD—8 INCH For Compounding New Finishes

No. 844—Soft Rubbing Pad, canvas back, long lasting wool nap of right length and texture to produce a fine finish and not mar surfaces on finest lacquer or enamel. Specify 1/2" or 7/8" center hole. Weight 4 oz.

See Master Price List for quantity prices



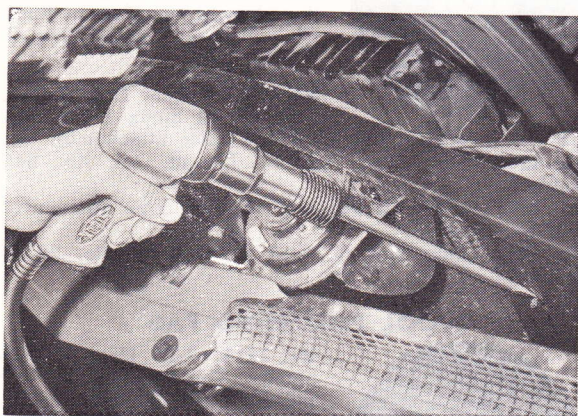
AIR METAL WORKING TOOL

SPECIFICATIONS

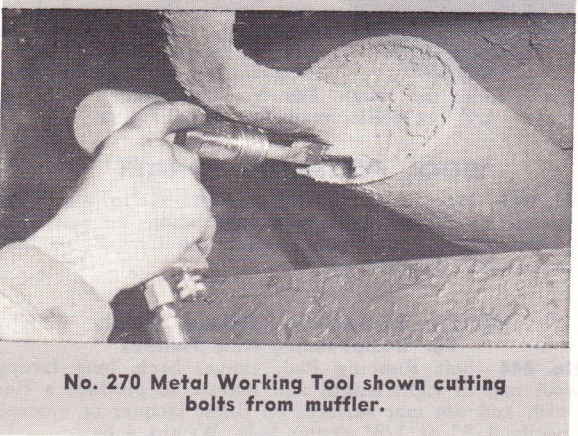
Stroke	3"
Bore	9/16"
Cap. Steel Rivet	3/16"
Hose Connection	1/4" PT.
Length	6 3/4"
Side to Center	1 1/16"
Average Air Consumption	4 Cu. Ft.
Net Weight — Tool Only	4 3/4 lbs.
No. 274—Metal Carrying Case	

References

Air Controls	Page 25	Attachments	Page 51
Air Hose	Page 25	Leader Hose	Page 25



No. 270 Metal Working Tool shown with extension chisel for those hard to reach places.



No. 270 Metal Working Tool shown cutting bolts from muffler.



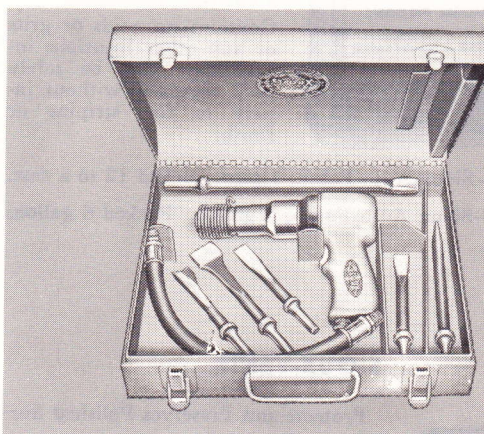
NO. 270

**SHEARS METAL
CUTS RIVETS
DRIVES RIVETS
CUTS METAL
SCRAPES BODY
INSULATION
BREAKS WELDS**

A versatile tool that triples the metal man's output. The Sioux SLUGGER is lightweight and simple to operate. The rapid pneumatic hammer action makes short work of those tough jobs.

Self-cooling operation keeps wear at a minimum. Precision cutting made possible with absolutely no fire hazard. An all metal quality tool that makes possible finer quality work in less than half the time formerly needed.

Recommended Air Pressure 90 P.S.I.



AIR METAL WORKING TOOL KIT

No. 270C—Kit includes the following:

- 1—No. 270 with 6' Leader Hose
- 1—No. 274 Metal Carrying Case
- 1—No. 38101 Cutter
- 1—No. 38102 Chisel
- 1—No. 38103 Rivet Buster
- 1—No. 38104 Extension Chisel
- 1—No. 38105 Scraper
- 1—No. 38106 Punch
- 1—No. 38108 Special Spring

NO. 270M—SPECIAL KIT FOR MUFFLER SHOPS

No. 270M—Kit includes the following:

- 1—No. 270 with 6' Leader Hose
- 1—No. 274 Metal Carrying Case
- 1—No. 38113 Muffler Splitter
- 1—No. 38102 Chisel
- 1—No. 38106 Punch



**STANDARD
THE**

FOR AUTO BODY, METAL SHOP AND OTHER PRODUCTION USES—POWERFUL—EFFICIENT

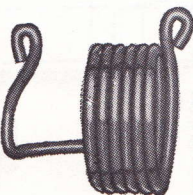
NO. 38106—PUNCH



PUNCH—May be used as punch for punching out wedged or swelled rivets, replacing grill rivets, driving king-pins, perch bolts, shock link studs, bearing races, and pressed bearings.

NO. 38108—SPECIAL SPRING

Use Spring No. 38108 In Place Of Regular Spring With No. 38111 Panel Crimper and No. 38105 Scraper.



NO. 38107—STANDARD CHISEL RETAINER SPRING

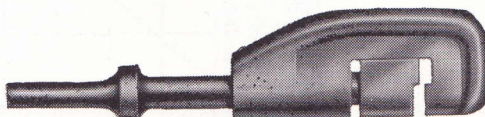
No. 38107—Standard Chisel Retainer Spring.

NO. 38110 SIOUX SHEET METAL PUNCH



It's the precision made "Sheet Metal" Punch. It punches perfect holes for metal screws faster than you can put them in place. It's indispensable for aligning garnish rails, punching out small rivets, etc. This new Sioux Punch is made of highest quality drill stem steel and is fully guaranteed against defects.

NO. 38111—SIOUX PANEL CRIMPER



Means Faster, Neater, Better Work and More Profit For Your Shop!

A new Sioux Tool you'll want. The Sioux Crimper, a speedy tool for sectioning body panels, doors, fenders, etc. with a perfect overlap. Crimper follows curves easily; takes the warp out of section welding. Makes a stronger neater joint.

NO. 38112—SPOT WELD BREAKER



A Tool that every body shop needs. This is a hardened tool that will take unusual punishment and give longer service. It actually breaks the spot welds! And quickly, too. Inexpensive—Easy to Use.

NO. 38105—SCRAPER



SCRAPER—Designed for removing underseal and deadener without heat. Removes all soft deadener without gumming. Cleans the surface—ready for work. Will not damage the metal.

AIR METAL WORKING TOOL ATTACHMENTS



NO. 38102—CHISEL



CHISEL — For breaking spot-welds, splitting nuts, shearing bolts, pulling pins, removing floor boards.

NO. 38113—MUFFLER SPLITTER



No. 38113—Muffler Splitter. Slits telescoped tail pipes and mufflers without damage to inner sections.

NO. 38114—EDGING CHISEL



No. 38114—Edging Chisel. Trims and edges sheet metal without stretch or distortion. Eliminates filing and grinding.

NO. 38103—RIVET BUSTER



RIVET BUSTER—For shearing all types of rivets—grill, frame, bumper, bracket rivets, etc.

NO. 38104—EXTENSION CHISEL



EXTENSION CHISEL—Designed especially for those "hard to reach" places.

NO. 38101—CUTTER



CUTTER—Cuts smooth and fast. For removing quarter panels, turret tops, rocker panels, lower body panels, door inner panels, etc. Excellent maneuverability. Any cutting radius.

RIVET SETS



No. 38128



No. 38132



No. 38136

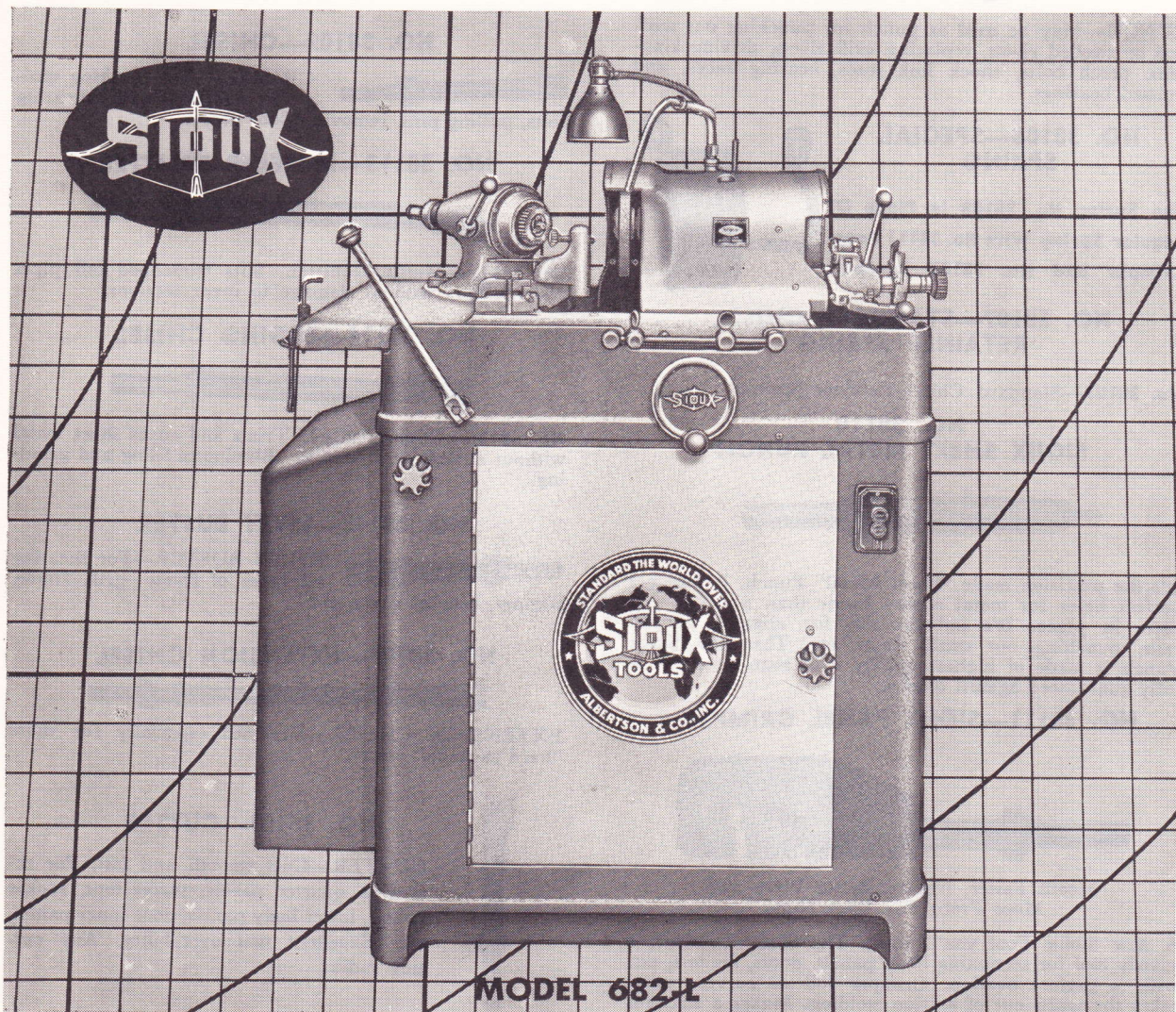


No. 38140

Rivet Head	Rivet Diameter Size			
	3/32"	1/8"	5/32"	3/16"
Cupping	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Button Head	38128	38129	38130	38131
Round Head	38132	38133	38134	38135
Brazier Head	38136	38137	38138	38139
Universal Head	38140	38141	38142	38143

Sioux Valve Service Unit

Precision Engineered Mechanism



Sioux

**STANDARD
THE**

DOES THOSE BIG JOBS FASTER WITH MORE ACCURACY

SIOUX valve grinding machines have proven their worth for over a quarter of a century.

The same basic principles are employed in SIOUX machines as in all fine production grinding machines; belts to absorb vibration, easy to clean chucks, accurate to within .001; inverted center floating aligner accurately holds valve being ground in same position that it will operate in engine after being ground.

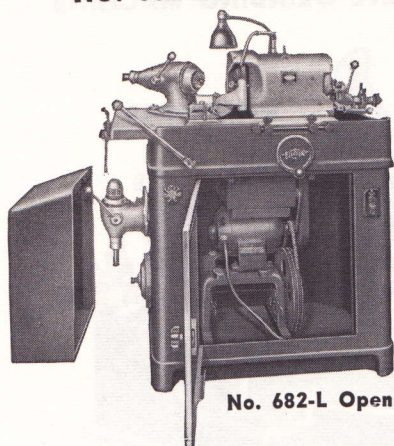
Cast iron base for rigidity and to provide weight for a precision grinder of this type. Way bars are precision made, hardened, and ground to close accurate limits.

Wet grinding an integral part of the machine. Finest vibration free motor drive. All SIOUX valve grinding machines are of the finest construction throughout, making a unit far in advance of the times and built to give lasting satisfaction.

FOR COMPLETE DETAILS AND SPECIFICATIONS ON MODEL 682-L SEE NEXT PAGE

NO. 682-L VALVE FACE GRINDER

COMPARE THESE FEATURES



No. 682-L Open

**Comes Equipped
With Cabinet
Stand**

There is no valve grinding machine made that approaches the SIOUX 682 in ruggedness, precision and ability to do those big jobs.

The **SIoux** in a few short years has made all machines follow its leadership. Wet grinding built in with removable coolant tank. Performs all valve refinishing operations, grinds valves, puts on chamfer, trues stem ends, grinds tappets, grinds rocker arms, and cuts valve stem ends by micrometer attachment. A complete unit. Supplied with either quick opening or lever operated chuck as desired.

No. 682-L—Lever operated Chucks. Capacity with two chucks, .230 to 1 1/4" valve stems. Capacity 6 1/2" valve heads.

Valves up to 18" long with aligner, no limitation when Chuck Bushings are used.

Micrometer feed, grinding head cage mounted precision ball bearings, coolant tank 2 1/2 gallons capacity. Embodies all the features shown at right above. Overload or Magnetic Switch Extra.

Spindle Speed2800 R.P.M.

Chuck Head No. 682-4AL .230 to 11/16.....Speed 250
R.P.M.

Chuck Head No. 682-4BL 9/16 to 1 1/4.....Speed 175
R.P.M.

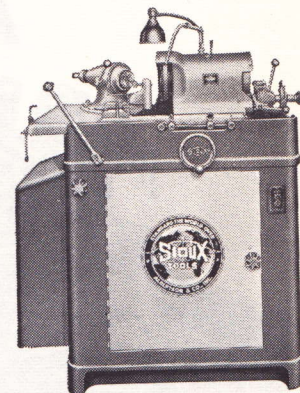
No. 641-B—Flexible Plastic Protective Cover for No. 682 Machine.

SPECIAL SWITCHES

No. 18175—Overload Switch, manual operation, with overload feature for 682 only. \$45.00 extra.

No. 18176—Magnetic Switch push button operation, overload and underload protection for 682 recommended for voltages over 230, \$75.00 extra.

- Rigid grinding head
- Ball bearing
- Permanently lubricated
- Removable coolant tank
- Self Priming Pump
- Automatic chuck stop
- Machine 44" long and 23" wide
- Two tone grey hammer-tone finish
- A complete valve grinding unit
- Wet grinding built in
- Lever operated chucks
- From 15° to 90° chuck angle
- Micrometer feed
- Coolant applied to both wheels
- 1 H. P. Motor, resilient mounted



No. 682-L Closed

NO. 682-L—STANDARD EQUIPMENT

No. 682-4AL Chuck and Head Assembly .230 to 11/16"
No. 682-4BL Chuck and Head Assembly 9/16" to 1 1/4"
—2 Grinding Wheels For Valves—No. 181 Wheel, No.
619A Valve End Attach., No. 628—Dressing Attach.
with 1715-A Diamond—No. 604 Wrench—No. 605
Wrench—No. 250 Grinding Oil—No. 648 Vee Block—
No. 672-A Rocker Arm Attachment—One Horse Power
Motor Drive. Switch, Standard across Line. 230 Volt
60 Cycle One Phase Shipped unless otherwise specified.
See below.

682 MACHINES OPTIONAL EQUIPMENT

					GRINDING WHEELS			
Mach. No.	Nt. Wt.	Ship Wt.	Capacity Chucks Supplied	With Rt. end Attach. No.	Wheel Auto	Wheel Stellite	Wheel Large Valves	Whl Vlv End
682-L	745	1050	.230" to 11/16" 9/16" to 1 1/4" Lever Oper.	619A 672A	178R	178PA	178	181
682-EL	745	1060	.230" to 11/16" Quick Act. 9/16" to 1 1/4" Lever Oper.	619A 672A	178R	178PA	178	181
682-AL	720	1040	.230" to 11/16" Lever Oper.	619A 672A	178R	178PA	178	181
682-BL	720	1040	9/16" to 1 1/4" Lever Oper.	619A		178PA	178	181
682-CL	745	1070	9/16" to 1 1/4" Lever Oper.	NONE		178PA	178	
682-RL	750	1040	9/16" to 1 1/4" Lever Oper.	619A 672A		178PA	178	181

All Wheels for 682 are Shipped on Hubs, and Balanced.
Hubs Returnable for Credit, \$3.00 Per Pair.

NOTE: Aligner Bushings for chucks, which permits grinding extra long valves are available in steps of 1/16", ranging in sizes from 5/8" to 1 1/4". See Numerical Price List. Grinding Wheels, Catalog Page 57.

Belts—See Catalog Page 74.

STD Motor either 115 or 230 volt, 50 or 60 cycle single or 3 phase. For other voltages and cycles add \$30.00 to prices in Price List.

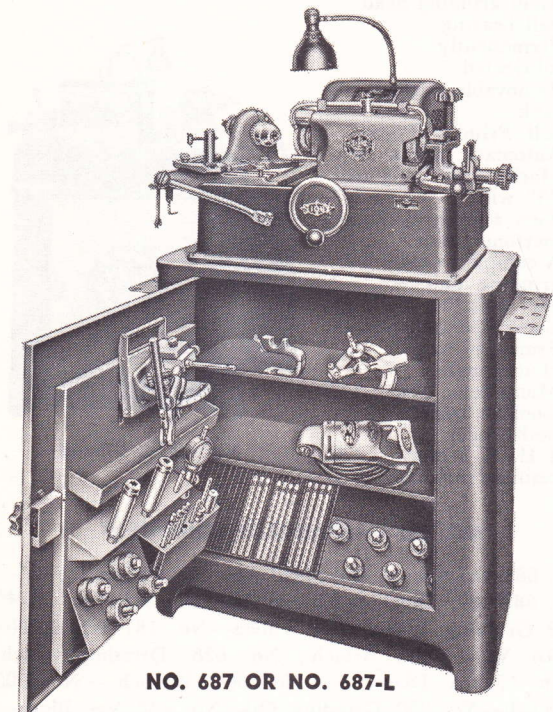


SIoux VALVE GRINDING MACHINES

STANDARD THE WORLD OVER

A REAL SERVICE COMBINATION

NO. 645L VALVE GRINDING MACHINE



NO. 687 OR NO. 687-L

No. 687 Consists of the Following

No. 645—Valve Face Grinding Machine
Lever operated chuck optional at slight extra cost

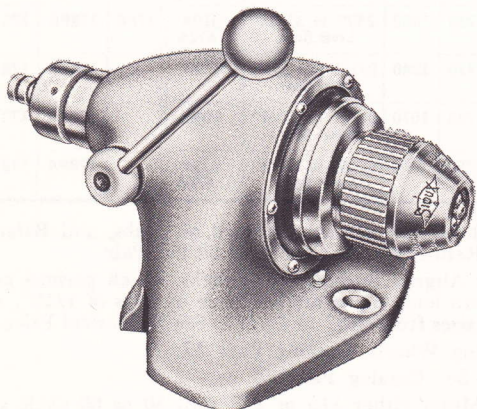
No. 644—Valve Service Cabinet. See page 57.

No. 1725-BB—Valve Seat Grinder Set (less box). See page 62.

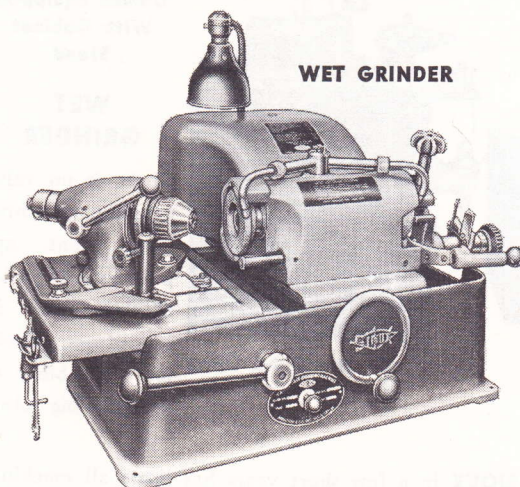
No. 687-L—Same as No. 687 except with No. 645-L valve grinding machine illustrated at right.

Wet Grinder reduces wheel dressing to a minimum. Eliminates heat and distortion, producing finest finish and factory precision.

THE FAMOUS SIOUX LEVER OPERATED CHUCK



Accurate and easy to operate. Only one setting required for valves of same size.



WET GRINDER

No. 645L—Valve grinding machine lever operated chuck. Capacity .230" to 11/16". Chuck No. 645-4AL. Wet grinding built in. For valves 15°, 30°, 45°, 50°, 60°, 75° angle. 29° and 44° scribed on chuck table for interference angle grinding. Chuck Speed 225 R.P.M. Spindle Speed 5800 R.P.M. Equipment variations as desired.

1/2 H.P. Motor, Resilient mounted absorbs vibration.

EQUIPMENT

- 1—No. 78E Wheel for Valves.
- 1—No. 81 Wheel, valve ends.
- 1—No. 636 Vee Block. See page 56.
- 1—No. 618 Dressing Att. with 1715 Diamond.
- 1—No. 613A Valve End Att. Fig. page 56.
- 1—No. 604 Hex Wrench
- 1—No. 605 Wrench
- 1—No. 672A Rocker Arm Att. Fig. page 56.
- 1—No. 250 Grinding Oil, Gal.
- No. 641—Flexible Plastic Cover.

No. 645—Same equipment as above only with quick acting chuck. Fig. Page 55. Chuck No. 645-4A.

Note: Prices in price list cover either 115 or 230 volt 50 or 60 cycle, for higher voltages or odd cycles, add \$20.00 to prices shown in price list.

SPECIAL EQUIPMENT MACHINES

If lever operated chuck is desired, add "L" to catalog number below for .230" to 11/16" chuck capacity.

No. 645-B—Less 613A Attachments. Equipped with 615 Dresser Arm with Diamond and swivel stud. 672-A rocker arm attachment included. Fig. 613A, Page 56. Chuck No. 645-4A.

No. 645-C—Less 613-A and 672-A Attachments. Fig. Page 56. With Chuck 645-4A.

No. 645LC—Same as 645L only with chuck capacity of 5/16" to 3/4". Recommended capacity for aircraft work, chuck lever operated. Chuck No. 645-4ALC.

CHUCKS

No. 645-4A—Chuck Quick Acting Cap. .230 to 11/16.

No. 645-4AL—Chuck Lever Operated Cap. .230 to 11/16.

No. 645-4ALC—Chuck Lever Operated Cap. 5/16 to 3/4.

No. 645-4AE—Chuck Lever Operated Cap. .170 to 9/16.



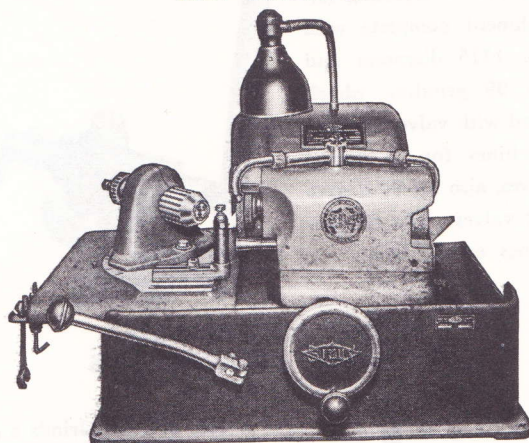
STANDARD
THE

SIoux VALVE GRINDING MACHINES



STANDARD THE WORLD OVER

NO. 645D VALVE FACE GRINDER WET GRINDER



The Sioux No. 645D with same dual grinding head, wet grinding built in and with same features as the No. 645, is equipped with the time proven Sioux Chuck. Not quick acting. No right end attachments.

No. 645D—With .230 to 5/8" SIOUX Chuck as shown. Not Quick Acting. Chuck No. 622N-4A with Standard Equipment. 1/2 H.P. Motor.

No. 645DA—Same as 645D with 613A attachment and 907 13/32" gauge pilot, and 23427 gauge body (893A less quick reading dial gauge). 672A Rocker Arm grinding attachment also included.

No. 23427 Gauge Body—Same as 893A, Page 56, without quick reading micrometer dial indicator.

SPECIFICATIONS ON VALVE GRINDING MACHINES

Machine No.	624	645	645D
Type	Wet	Wet	Wet
Net Wt.	135	237	235
Ship Wt.	155	325	320
Base Dim.	17" x 13 3/4"	25" x 15"	25" x 15"
Drive Motor	1/3 H.P.	1/2 H.P.	1/2 H.P.
Chuck Cap. Stems Head	3/16" to 13/32"	.230 to 11/16" 4"	.230 to 5/8" 4"
Use Wheel for Auto	78-E†	78-E†	78-E†
Use Wheel for Stellite	78A	78A	78A
Use Wheel for Large Valves		78SP§	78SP§
Use Wheel for Valve Ends	No	81	81
Rt. End Equip.	No	Yes	No†

MOTORS RESILIENT MOUNTED, ABSORBS VIBRATION

†Special Equipment

‡Standard Equipment.

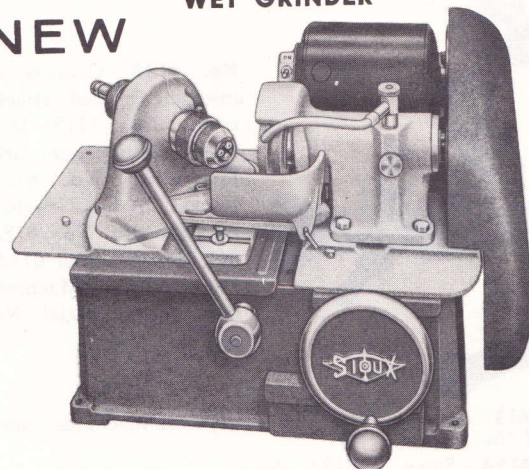
§Also Plunge Grinding.

Straight Wheels Available When Required—See Page 57 for Replacement Diamonds.
Other Voltages and Cycles Available Except as Noted.
Motors Standard Either 115 or 230 Volt 50 or 60 Cycle Single Phase.

NOTE: For other Motor Voltages or Cycles add \$20.00 to Prices shown in Price List.

NO. 624 VALVE FACE GRINDER WET GRINDER

NEW



No. 624—Valve Face Grinding Machine, Wet Grinder. Wet Grinder for valves 30°, 45°, 50° and 60° and with Chucking Capacity from 3/16" to 13/32" Diameter, inclusive. For the automotive shop or shop working on small engines. This Sioux Machine provides a low cost precision built unit. 1/3 H.P. Motor.

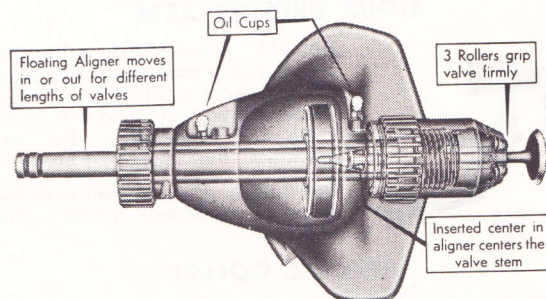
- Automatic Chuck Stop
- Sioux Roller Chuck—not quick acting—No. 624-4A Cap. 3/16" to 13/32".
- Rigid Grinding Head precision ball-bearing permanently lubricated
- Chuck Speed 250 R.P.M.
- Grinding Head 5800 R.P.M.

STANDARD EQUIPMENT No. 624

No. 104 Dressing Attachment with 112 Diamond
No. 896 Vee Block
No. 604 Wrench
No. 605 Wrench
No. 78-E Grinding Wheel
No. 641-A Flexible Plastic Cover
1/2 Gal. No. 250 Grinding Oil.

No. 74—Aligner Wrench fits all valve grinding machines.

WHY SIOUX VALVE GRINDING MACHINES ARE BETTER



Sioux Quick Acting Roller Chuck
Accurate and Easy to Clean
Lever Operated Chuck Optional
See Page 54

TOOLS

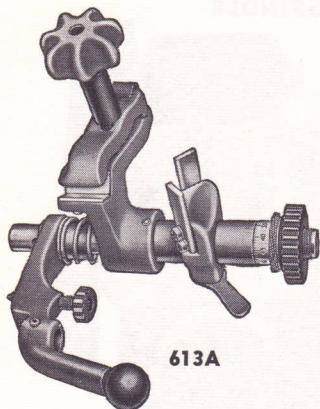
WORLD
OVER



VALVE GRINDING MACHINE ATTACHMENTS

STANDARD THE WORLD OVER

SIOUX VALVE END GRINDING ATTACHMENTS



613A

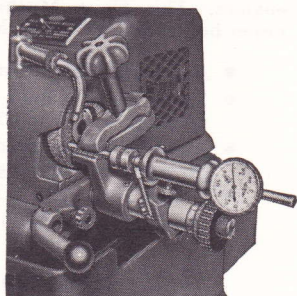
No. 613A—Consists of micrometer feed attachment, No. 1715 Diamond, with dresser arm for using No. 672A Rocker Arm Grinding Attachment. No. 672A not included with 613A. For No. 645 Machines only, above serial No. 35000.

No. 613—Same as No. 613A, except for machines under serial No. 35000.

No. 619A—Same as 613A above, only designed for No. 682 machines above serial No. 848.

No. 619—Same as 613A above, only designed for No. 682 machines under serial No. 848.

Micrometer feed clearly graduated in thousandths. Mounted on a carefully machined bar, which fits into the grinding head. The speed and accuracy of this attachment will save many hours of guess work for obtaining the desired tappet clearance on all valves not having adjustments.



Indicator Gauge in attachment

No. 893A—Quick Reading Micrometer Dial Indicator for No. 613A and No. 613 Right End Micrometer Attachment.

- No. 901**—19/32
- No. 902A**—1 1/32
- No. 903**—13/16
- No. 904**—.850
- No. 907**—11/32
- No. 908**—5/16
- No. 908A**—3/8
- No. 908B**—7/16



Gauge Pilots for use with No. 893A or No. 23427 and No. 613A or No. 613 Attachment.

SIOUX DRESSER ARM

No. 615—Dresser Arm with diamond and swivel stud for using 672A rockerarm attachment when machine is not equipped with 613A valve end attachment. For 645 machines. Fig. left; 613A above.

No. 23752—Dresser Arm with diamond as above only for 682. Fig. 615.

SPECIAL COLLET

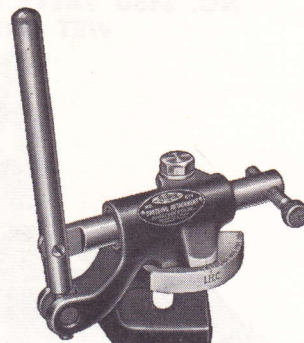
Auxiliary Valve Collet, for use in Valve Face Grinding Machine Chuck to hold small 30° valves with stems less than 1/4".

- No. 607**—furnished in decimals .242" to .252".
- No. 607A**—furnished in decimals .235" to .245".
- No. 607B**—furnished in decimals .228" to .238".

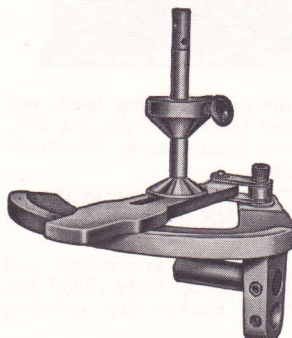
SEE MASTER PRICE LIST FOR EXCHANGE PRICES FOR LEVER OPERATED CHUCKS

SIOUX DRESSING ATTACHMENT

No. 617—Dressing Attachment complete with No. 1715 diamond and No. 99 grinding wheel. Used with valve grinding machines for 15 degree valves, also for 90 degree flat valves. Fits all machines except 682.



SIOUX ROCKER ARM GRINDING ATTACHMENTS



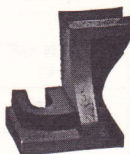
No. 672-A—Grinds auto, truck and tractor rocker arms quickly and accurately. For Nos. 645, 682, 662, 657 and 655 Valve Face Grinding Machines, and all machines that are equipped with double end grinding head for valve ends.

No. 674—For Nos. 620, 622-N, 624, 645 and 650 Sioux Valve Face Grinders.



VEE BRACKETS FOR GRINDING TAPPETS

No. 896—For Valve Stem Chamfering. Fits all machines except No. 682.



No. 636—V-block with stop for No. 620, 622-N, 645. Standard equipment on above machines.

No. 647—V-block for No. 661, 662, 663 and 667.

No. 648—Vee Block No. 682 machine.

SIOUX AUXILIARY CHUCK

No. A30-B—Auxiliary Chuck and Arbor, for valve stems less than 5/16", used in Valve Face Grinding Machine Chuck for small 45° valves only.

WET GRINDING OIL

No. 633—"2-oz." Concentrated Soluble Oil. Makes 3 quarts of grinding solution.

No. 632—"Quart" Concentrated Soluble Oil. Makes 10 gallons of grinding solution.

No. 632-G—Gallon Soluble Oil.

No. 250—Gallon Grinding Oil for 624, 682 machines, 645 Serial 35217 up.

No. 249—Gallon Grinding Oil for 655-645-622 Machines.



STANDARD
THE

VALVE GRINDING MACHINE ATTACHMENTS



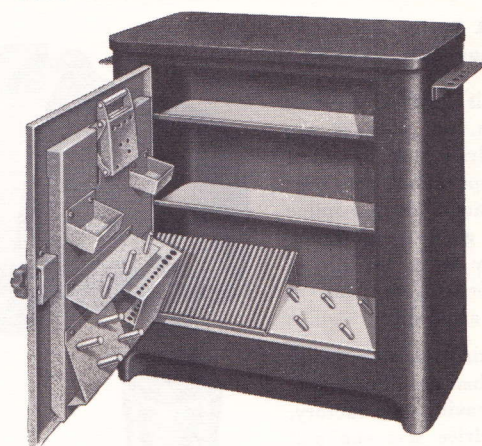
STANDARD THE WORLD OVER

NO. 677 VALVE SERVICE CABINET



No. 677—Valve Service Cabinet. Mounted on wheel casters and easily moved about the shop. Ample room is provided for valve machine and seat grinding tools. Cabinet is of sturdy steel construction, top surface 30 1/2" x 20", saves time and affords faster work.

NO. 644 VALVE SERVICE CABINET



No. 644—Valve Service Cabinet, (stationary), with detachable No. 644-A, Serva-Tool-Dor Panel. Cabinet is of sturdy steel construction with large top surface, 31 3/4" x 18" for valve face grinding machine. Valve racks are provided and shelf space for other required tools. Your own tools may be mounted on the handy Serva-Tool-Dor. Casters not available.

VALVE GRINDING WHEEL DIAMONDS FOR BEST RESULTS USE SHARP DIAMONDS

Machine No.	Grinding Wheel Diamond No.	Right End Attachment Where Used, Diamond No.
620 624 650	112†	
622 655	112†	657-361†
622N	112†	
657	112†	657-361†
661 662 663	112†	657-361†
645	1715†	1715†
682	1715A§	1715A§

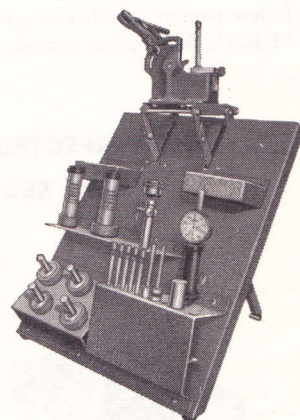
†—1/4 Carat

§—3/8 Carat

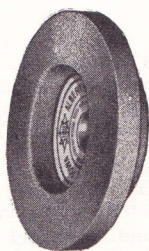
NO. 644A SERVA-TOOL-DOR

No. 644-A—Serva-Tool-Dor Panel. (Tools not included.)

Take the tools to the work and save time. Also for No. 682 Machine.



GRINDING WHEELS FOR VALVE FACE GRINDING MACHINES Especially Selected, Tested for Speed and Balance to produce the most satisfactory results



Standard Mounting

†No. 178 and No. 178AA Reverse Mounted unless otherwise specified.

§78E fits all Sioux Machines except 682, and should be used for general grinding.

No.	Dia.	Size Thick.	Hole	Used With	For Valve Type	Grit	Shape	Standard Equipment On
75	4	1/2	5/8	Valve Grinder	Automotive	60	Straight	None
78E§	4	1/2	5/8	Valve Grinder	Automotive	60	Offset	645-622N-620-624
78SP	4	1/2	5/8	Valve Grinder	Plunge Grinding	60	Offset	None
78A	4	1/2	5/8	Valve Grinder	Stellite Only	80	Offset	None
81	4	1	5/8	Valve Grinder	Valve Ends	46	Cup	645 with 613
99	4	11/16	5/8	617 Att.	90° & 15° Valves	60	Offset	617 Att.
175	8	11/16	1 3/4	682	Large 4 1/2 & up	80	Straight	682
175PA	8	11/16	1 3/4	682	Aircraft-Stellite	80	Straight	None
175R	8	11/16	1 3/4	682	Auto. up to 4 1/2"	60	Straight	None
175SP	8	11/16	1 3/4	682	Plunge Grinding	80	Straight	None
178†	8	11/16	1 3/4	682	Large 4 1/2 & up	80	Offset	682
178PA	8	11/16	1 3/4	682	Aircraft-Stellite	80	Offset	None
178R	8	11/16	1 3/4	682	Auto. up to 4 1/2"	60	Offset	None
178SP	8	11/16	1 3/4	682	Plunge Grinding	80	Offset	None
178AA†	8	11/16	1 3/4	682	Auto-Stellite	80	Offset	None
179	4	1/4	5/8	Valve Grinder	Plunge Grinding	100	Straight	None
181	7	1	1 3/4	682	Valve Ends	36	Cup	682 with 613

All Wheels for No. 682 are furnished only Balanced and Mounted on Hubs. Hubs may be returned for \$3.00 credit or for remounting.

SEE PAGES 53 & 54 FOR WHEELS USED AS STANDARD EQUIPMENT.

TOOLS

WORLD
OVER



DRIVERS FOR VALVE SEAT GRINDING

STANDARD THE WORLD OVER

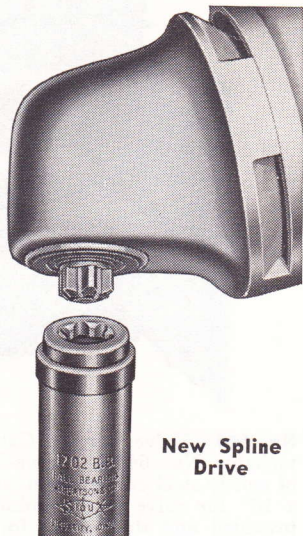
SPLINE DRIVE

A Better Drive Than Ever Before

This is a spline drive as shown, in place of the hex drive that has been so dependable for over 20 years. This new spline drive gives from ten to twenty times the life of the hex drive, and is more accurate.

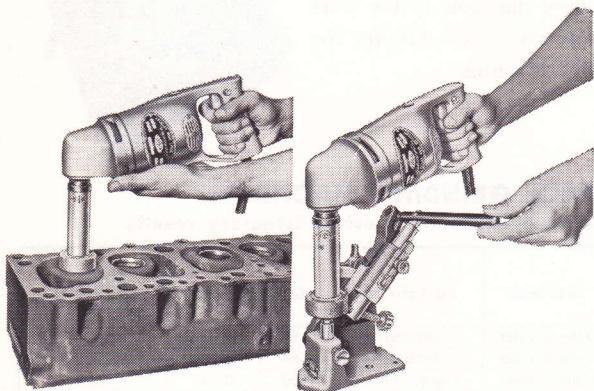
This drive is now being furnished on all complete sets leaving the factory. Hex drive sets can still be furnished if so specified.

Single orders for drivers and holders, unless otherwise specified, will be shipped with spline drive. Where hex drive is needed, follow catalog number of either driver or holder by suffix "HEX". Same price applies.



New Spline
Drive

THE PERFECTED DUAL-ACTION VALVE SEAT GRINDER



Grinding
Valve Seat

Dressing
Grinding Wheel

PERFECT ACCURACY IS ASSURED

The greatest possible accuracy can be obtained with the Sioux Dual-Action Valve Seat Grinder and Sioux Tapered Pilots. Sioux Tapered Pilots are precision tools and offer the most positive guide known. Dual-Action, a controlled fine vibration for grinding and dispersion of the cuttings with the grinding wheel mounted for full contact with the valve seat. A perfected system.



NO. 1700 SIOUX HIGH SPEED DRIVER Specify if for Hex Drive

For grinding wheels up to 2" in diameter.

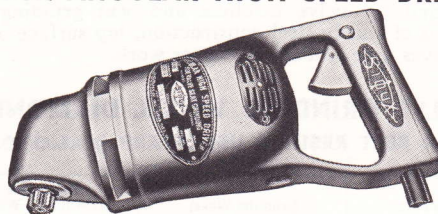
Universal Motor

NO. 1705 SIOUX HEAVY DUTY DRIVER

No. 1705—For use with valve seat grinding wheels up to 3" in diameter. As illustrated at left.

See Page 61 for
Specifications

NO. 1710 SIOUX ANGULAR HIGH SPEED DRIVER



Universal Motor

No. 1710—For grinding wheels up to 2" in diameter.

SIOUX ANGULAR HEAVY DUTY DRIVER

No. 1712—For use with valve seat grinding wheels up to 3" in diameter. As illustrated above.

SIOUX GRINDING WHEEL HOLDERS

SPECIFY IF HEX DRIVE IS REQUIRED

Permanently lubricated ball bearings.

Ideal for production service.

Ball bearings are mounted between the inner and outer sleeves.

The hardened and precision ground inner sleeve floats on the pilot and reduces friction and wear.



No. 1702-BB-S—Ball Bearing Grinding Wheel Holder, 11/16"-16 thread. For use with (No. 2 Sioux taper) tapered or expanding pilots having 3/8"+.010 upper end. Size 1 1/4" diameter by 5" long.

No. 1703-BB-S—Ball Bearing Grinding Wheel Holder, 7/8"-14 thread. For use with (No. 3 Sioux taper) tapered or expanding pilots having 9/16"+.010 upper end.

No. 1703-BB-5-S—Ball Bearing Grinding Wheel Holder, 7/8"-14 thread and equipped with Flanges to take 1" smooth center hole Grinding Wheels. 1 1/2" dia. by 5" long.

No. 1672-BB-S—"Short" Ball Bearing Grinding Wheel Holder, 11/16"-16 thread. For use with tapered pilots having short upper end. 1 1/4" diameter by 3 3/16" long.

No. 1702-S—Grinding Wheel Holder. Has a hardened and ground inner sleeve bearing 11/16"-16 thread, is for use with No. 2 upper end, tapered or expanding pilots. Size 1 1/4" diameter by 5" long.

No. 1751-S—Holder 5/16" hole for small Grinding Wheels, 1/2"-20 thread for pilots with 5/16" No. 1 upper end.



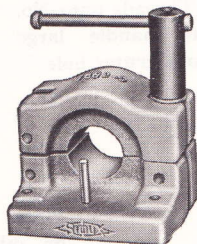
STANDARD
THE

VALVE SEAT GRINDER ACCESSORIES



STANDARD THE WORLD OVER

HOLDER CLAMP



Provides a vise like clamp for removing wheels from holders without injury to the holder. Supplied in three sizes.

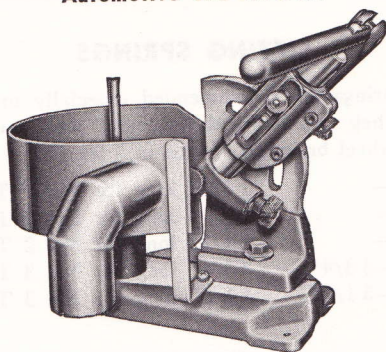
No. 1682-2—For 1702BB, 1672BB Holders.

No. 1682-3—For 1703BB Holders.

No. 1682-4—For 1674BB Holders.

SIoux HEAVY DUTY DRESSING TOOLS

For Valve Seat Grinding Wheels
Automotive and Aircraft



Heavily built for extreme accuracy and ideal for production service. Capacity up to 6 in. Designed with complete adjustments for dressing ALL SIZES of Sioux valve seat grinding wheels, including angles from zero to 90° with degree synchronizing adjustments for perfectly accurate finish on valve seats. Equipped with Hex Diamond for accuracy.

No. 1719—Dressing Tool, equipped with guard and No. 1718-A pilot for Nos. 1702 or 1702-BB wheel holders. Height, 8 1/2 in., base, 6x4 in. Net weight, 17 lbs.

No. 1715-B—Replacement Hex Diamond. 3/8" KT for 1719 and 1772.

No. 1718-A—Pilot for 1719, 1713, 1713A and 1713B dressing tool for use with Nos. 1702 or 1702BB wheel holders.

No. 1718-B—Pilot for 1719, 1713, 1713A and 1713B dressing tool for use with Nos. 1703 or 1703-BB wheel holders.

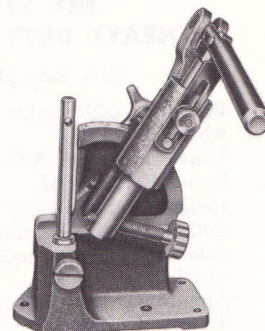
No. 1718-C—Pilot for 1719, 1713, 1713A and 1713B dressing tool for use with No. 1672-BB wheel holders.

No. 1718-G—Guard only for 1718-HEX Dressing Tool.

No. 1718-F—Pilot for dressing tool for 1674-BB-3 holders.

No. 1718-H—Dressing Pilot for No. 1751 No. 1 holder.

SIoux DRESSING TOOL



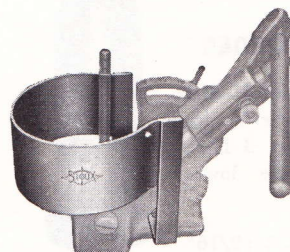
No. 1713B—Sioux Dressing Tool has a capacity up to and including 4 in. in diameter. Graduated to obtain 15, 30, 45, 60 and 90 degree angles. Height 7 3/4 inches. Base 4 3/4x3 5/16 inches. Equipped with pilot No. 1718-A to handle No. 1702-BB Grinding Wheel Holder.

Use same pilots as No. 1719 listed at left below.

No. 1715—Replacement Diamond. 3/8"-24 thread. 1/4 KT.

No. 1715-A—Heavy Duty Diamond. 3/8"-24 thread. 3/8 KT.

DRESSING GUARD



No. 1713-G — Guard only for dressing tool. Assures safety in wheel dressing. For No. 1713, 1713A and 1713B Dressing Tool.

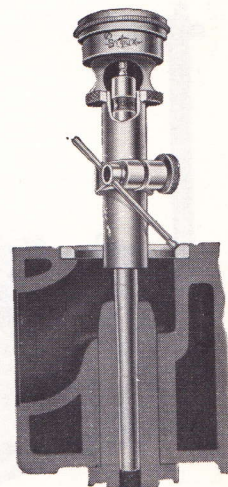
SIoux VALVE SEAT INDICATOR FOR CHECKING VALVE SEATS

No. X-825—Sioux Valve Seat Indicator for Tapered and Expanding pilots having 3/8"+.010 upper end. No. X-825 consists of Indicator Head, and No. 23780 sleeve for pilots with No. 2 upper end.

No. X-826—Sioux Valve Seat Indicator for tapered and expanding pilots having (9/16"+.010) No. 3 upper end.

No. X-825-A-SP—"Short" Sleeve for X-825 Indicators for "Short" tapered pilots having 3/8"+.010 upper end.

No. 34221—Sleeve for X825 indicator for No. 3 top pilots having 9/16"+.010 upper ends.



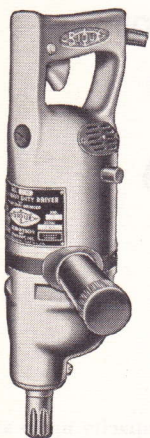
TOOLS

WORLD
OVER



HEAVY DUTY VALVE SEAT GRINDER

STANDARD THE WORLD OVER



FOR LARGE ENGINES

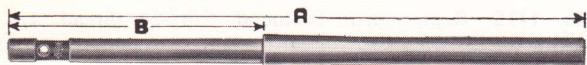
NO. 1770 HEAVY DUTY DRIVER

With Side Handle

For use with valve seat grinding wheels 4" to 6".
Universal Motor A.C.-D.C. 115 volt.
Speed 4000 R.P.M.
Length overall 14 1/8".
Ball and Roller Bearing.
Alloy steel gears, permanently lubricated.
Aluminum Alloy Case.
Trigger Switch.
Net weight, 11 1/2 lbs.
32 volt not available.

No. 1770-A—H. D. Driver, same as 1770 except 6000 R.P.M. for wheels 3" to 4".
See Specification Page 61.

SPECIAL LENGTH TAPERED PILOTS



These Tapered Pilots are required for large engines.
(Specify make and model of engine).

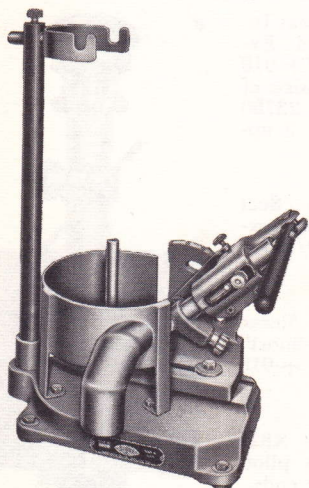
NO. 1703-BB-5 GRINDING WHEEL HOLDER

Ball Bearing Grinding Wheel Holder with 1703-7 Flange for large wheels with 1" smooth centers, also for No. 3 Hole threaded wheels, omitting the lower flange.

For use with pilots having No. 3 (9/16" +.010) upper end.
Size 1 1/2"x5" long.



NO. 1772 HEAVY DUTY DRESSING TOOL



Heavy Duty Dressing Tool with Driver Support, guard, and 1772-B pilot for 1703-BB wheel holders with 1715-B hex diamond.

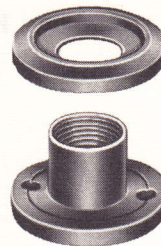
Capacity up to 6 1/8" wheel dia. Height 22". Base 8"x10 1/2".

No. 1772-A—Pilot for 1772 Dressing Tool for 1702-BB Holder.

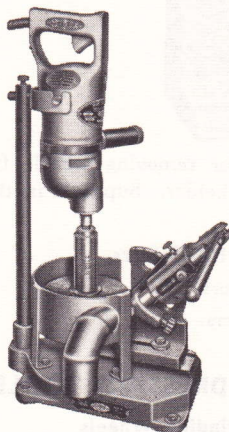
No. 1772-C—Dressing Pilot for 1672-BB Holder.

NO. 1703-7 FLANGE

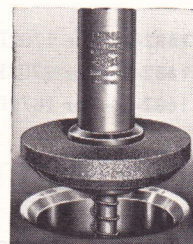
Flange for holder. Threads onto No. 1703-BB holder to handle large wheels with 1" smooth center hole.



Place the lifting spring on pilot and bring the wheel up to speed before grinding.



Dressing Grinding Wheel



LIFTING SPRINGS

Lifting Springs are recommended especially under large wheels. They can be used on many jobs, saving drive unit and wheel breakage. Made in 5 lengths.

No. 1435—	1 1/2" long for No. 2 Top Pilots
No. 1436—	2 " long for No. 2 Top Pilots
No. 1437—	2 1/2" long for No. 2 Top Pilots
No. 1442—3 3/4"	3 3/4" long for No. 3 Top Pilots
No. 1442—5 1/2"	5 1/2" long for No. 3 Top Pilots

NO. 1780 VALVE SEAT GRINDER SET

"Basic Set" Includes:

- 1—No. 1770-S.....Heavy Duty Driver
- 1—No. 1772.....Dressing Tool with 1772-B Pilot, 9/16" + .010.
- 2—No. 1703-BB-S-5.....Holders with 1703-7 Flange
- 1—No. 1703-8.....Spanner Wrench
- 1—No. 1682-3 Fig. Page 59.....Holder Clamp
- 1—No. X-826 Fig. Page 59.....Indicator
- 1—No. X-812Pin
- 1—No. 1442-3 3/4"Special Lifting Spring
- 1—No. 1442-5 1/2"Special Lifting Spring
- 1—No. 1779.....Metal Box

Grinding Wheels and Pilots must be purchased extra for the particular engines to be serviced. (Specify make and model of engine.)

Wheels 4" and larger may be furnished with 1" smooth center holes for use with 1703-BB-5 Holder. (In ordering specify the regular numbers followed by -5, Example K-69-5.)

No. 1780-A—Set same as above with 1770-A Driver.



STANDARD
THE

**GRINDING WHEELS NOT TO BE
OPERATED ABOVE 6500 S.F.P.M.**

No. 1709—High Speed Driver, 2 AMP. at 115 Volt. 13,000 RPM. Designed especially for the No. 1768 Grinding Set. Capacity 1 3/8" grinding wheels.

NO. 1768 VALVE SEAT GRINDER SET

Set No. 1768 is complete with No. 1709 driver, No. 1713B Dressing Tool, one No. 1672S Holder and three lifting springs, No. 1432 1 1/2" Long, No. 1433 2 1/4" Long, No. 1434 3" Long, pilots and wheels listed below, packed in cardboard carton.

All Above Are Equipped with Universal Motors.
† 32 Volt Available. * Degrees Given Are from Horizontal.

TAPERED PILOTS

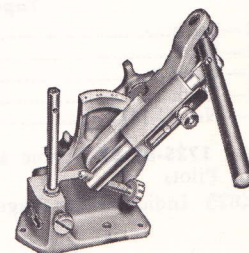
- 1—No. T050....1/4" (Short)
 1—No. T051....1/4" + .001 (Short)
 1—No. T081....9/32" (Short)
 1—No. T082....9/32" + .001 (Short)
 1—No. T 12....5/16" (Short)
 1—No. T 13....5/16" + .001 (Short)

- | | | | |
|-------|------------|---------|-----|
| 1—No. | SK-1B..... | 1 1/16" | 45° |
| 1—No. | SK-A1..... | 1 1/8" | 45° |
| 1—No. | SK-1C..... | 1 3/16" | 45° |
| 1—No. | SK-1..... | 1 1/4" | 45° |
| 1—No. | SK-3..... | 1 5/16" | 45° |
| 1—No. | SK-5..... | 1 3/8" | 45° |

Small engines require accurate valve seating. Sioux small engine tools are specifically designed for this purpose. Lowest price consistent with accuracy.

No. 1768—Valve Seat Grinding Set, Capacity 1 3/8" grinding wheels, especially designed for the power mower, motorcycle or outboard engine rebuilder. Gives utmost precision and same high accuracy as larger sets.

No. 1713B—Dressing Tool will dress 45° and 30° angle Wheels, Capacity 4" for 1768 Set.



61



SIoux VALVE SEAT GRINDER SETS

STANDARD THE WORLD OVER

NO. 1750-BB BASIC GRINDER SET



Consists of the Following Items

- No. 1710-S Spline High Speed Driver, 15° angle
 No. 1702-BB-S Spline Ball Bearing Wheel Holder
 No. 1713-B Capacity 4", Dressing Tool
 No. X-811 Pin
 No. 1757 Metal Box

NO. 1725-BB VALVE SEAT GRINDER SET

For General Automotive Service

Consists of the Following Items

- 1—No. 1710-S Spline High Speed Driver
 2—No. 1702-BB-S Spline Wheel Holder
 1—No. 1713-B Capacity 4", Dressing Tool
 1—No. X-811 Pin
 1—No. 1757 Metal Box

Finishing Wheels

- | | |
|-----------------------------|-----------------------------|
| 1—No. SK-3 1 5/16" 45° | 1—No. K-28 2 1/8 " 45° |
| 1—No. SK-5 1 3/8 " 45° | 1—No. K-42 2 1/4 " 45° |
| 1—No. SK-9 1 1/2 " 45° | 1—No. K-413 .. 1 5/8 " 30° |
| 1—No. K-13 1 5/8 " 45° | 1—No. K-421 .. 1 7/8 " 30° |
| 1—No. K-17 1 3/4 " 45° | 1—No. K-425 .. 2 " 30° |
| 1—No. K-21 1 7/8 " 45° | 1—No. K-428 .. 2 1/8 " 30° |
| 1—No. K-25 2 " 45° | 1—No. K-442 .. 2 1/4 " 30° |

Roughing Wheels

- | | |
|-----------------------------|-----------------------------|
| 1—No. SK-79 .. 1 1/2 " 45° | 1—No. K-87 1 3/4 " 45° |
| 1—No. K-83 1 5/8 " 45° | 1—No. K-91 1 7/8 " 45° |

Tapered Pilots

- 1—Each..... .396, .397, .398
 1—Each..... .312, .313, .314, .315
 1—Each..... .343, .344, .345, .346
 1—Each..... .373, .374, .375, .376, .377
 1—No. C-118..... Expanding Guide Cleaner

No. 1725-BB-EX—Same as 1725-BB except with Expanding Pilots.

X825 Indicator see page 59.

NO. 1763-BB AUXILIARY TOOL SET

Used with No. 1710 or No. 1712 drivers, 15° angle. For cars with the back valve seats close under the dash.

Consists of the Following Items

- 1—No. 1672-BB..... "Short" Wheel Holder
 1—No. 1718-C..... "Short" Dressing Pilot
 1—No. T-41..... "Short" Tapered Pilot. (Kaiser-Frazer)
 1—No. T-43..... "Short" Tapered Pilot. (Oldsmobile, Packard, Chrysler Corp.)
 1—No. T-75..... "Short" Tapered Pilot. (Jeep)

Specify If For Hex Drive

NO. 1726-BB HEAVY DUTY VALVE SEAT GRINDER SET

Consists of the Following Items

- 1—No. 1712-S Spline Heavy Duty Driver
 2—No. 1702-BB-S Spline Wheel Holder
 1—No. 1719 Capacity 6", Dressing Tool
 1—No. 2-A Wrench
 1—No. X-811 Pin
 1—No. 1757 Metal Box

Above Basic Set No. 1774-BB

Finishing Wheels

- | | |
|-----------------------------|-----------------------------|
| 1—No. SK-5 1 3/8" 45° | 1—No. SK-75 1 3/8" 45° |
| 1—No. SK-9 1 1/2" 45° | 1—No. K-83 1 5/8" 45° |
| 1—No. SK-409 .. 1 1/2" 30° | 1—No. K-483 1 5/8" 30° |
| 1—No. K-13 1 5/8" 45° | 1—No. K-87 1 3/4" 45° |
| 1—No. K-413 1 5/8" 30° | 1—No. K-487 1 3/4" 30° |
| 1—No. K-17 1 3/4" 45° | 1—No. K-95 2 " 45° |
| 1—No. K-417 1 3/4" 30° | 1—No. K-98 2 1/8" 45° |
| 1—No. K-21 1 7/8" 45° | 1—No. K-102 2 1/4" 45° |
| 1—No. K-25 2 " 45° | 1—No. SK-139 .. 1 1/2" 15° |
| 1—No. K-28 2 1/8" 45° | 1—No. SK-143 .. 1 5/8" 15° |
| 1—No. K-42 2 1/4" 45° | 1—No. SK-147 .. 1 3/4" 15° |

Roughing Wheels

- | |
|--|
| 1—No. E-312..... 5/16" Expanding Pilot |
| 1—No. E-343..... 11/32" Expanding Pilot |
| 1—No. E-375..... 3/8" Expanding Pilot |
| 1—No. E-406..... 13/32" Expanding Pilot |
| 1—No. E-437..... 7/16" Expanding Pilot |
| 1—No. E-500..... 1/2" Expanding Pilot |
| 1—No. C-118..... Expanding Guide Cleaner |
| 1—No. 225..... Carbon Cleaning Brush |
| 1—No. 226..... Carbon Cleaning Brush |

1726BBT same as above but with Tapered Pilots.

NO. 1724 VALVE SEAT GRINDER SET

Consists of the Following Items

- 1—No. 1750-A Metal Box
 1—No. 1710-S Spline High Speed Driver
 1—No. 1702-S Spline Standard Wheel Holder
 1—No. 1713-B Capacity 4", Dressing Tool
 1—No. X-811 Pin

Finishing Wheels

- | | |
|----------------------------|-----------------------------|
| 1—No. SK-9 1 1/2" 45° | 1—No. K-413 1 5/8" 30° |
| 1—No. K-13 1 5/8" 45° | 1—No. K-417 1 3/4" 30° |
| 1—No. K-17 1 3/4" 45° | 1—No. K-425 2 " 30° |
| 1—No. K-21 1 7/8" 45° | |

Roughing Wheels

- | | |
|----------------------------|----------------------------|
| 1—No. K-83 1 5/8" 45° | 1—No. K-87 1 3/4" 45° |
|----------------------------|----------------------------|

Tapered Pilots

- 1—Each..... 5/16" Std. and plus .001, .002
 1—Each..... 11/32" Std. and plus .001, .002
 1—Each..... 3/8" Std. and plus .001, .002

No. 1724-EX—Same as 1724 except with Expanding Pilots.

No. 1756—Metal Box for sets with large pilots, grinding wheels and No. 1719 Dressing Tool.

For Motor Information See Inside Front Cover



STANDARD
THE

CONDENSED LISTINGS

SPLINE DRIVE



These sets are factory approved and contain in addition to the basic set, Pilots and Grinding Wheels as shown. No. 1780 Basic Set shown on Page 60. No. 1778BB Basic Set consists of one 1712-S Driver, one 1713-B Dressing Tool, one 1702BB or 1702 Holder, and 1757 Box illustrated. No. 1750BB Basic Set same except with No. 1710-S Driver.

WHITE MOTOR TRUCKS, Complete Set No. RSA 500.

Expanding



Adjustable for valve guides from 5/16" to 5/8". The flat spring steel blades press against the guide by spring tension and scrape out the carbon without injury to the guides. Use with 1/4" Electric Drill.

No. C-118-A—Set of replacement blades for expanding valve guide cleaner.

Solid—Not Expanding



Use with 1/4" Electric Drill. Made in the following sizes:

Number	Size	Number	Size
C-312	5/16	C-593	19/32
C-328	21/64	C-625	5/8
C-343	11/32	C-850	.850
C-375	3/8	C-875	7/8
C-406	13/32	C-1000	1
C-437	7/16	C-1031	1 1/32
C-468	15/32	C-1125	1 1/8
C-500	1/2	C-1250	1 1/4
C-562	9/16		

Tynex Nylon

The strong tough Tynex Nylon bristles clean the valve guides fast and thoroughly, remove carbon, sludge and varnish without injury to the guide.

Use with 1/4" electric drill.

Number	Guide Size
N-250	1/4"
N-312	5/16"
N-343	11/32"
N-375	3/8"
N-437	7/16"
N-500	1/2"-9/16"
N-625	5/8"
N-750	3/4"

Sioux Wire End Brushes See Page 41

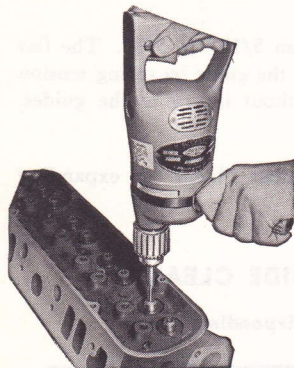
SIoux VALVE STEM GUIDE REAMERS

STANDARD THE WORLD OVER

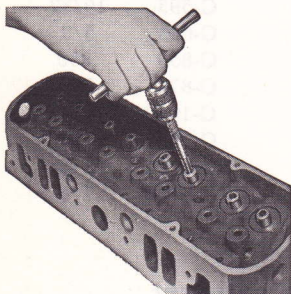
SELF-ALIGNING GUIDE REAMERS



Essential for late model engines with integral guides.



Power Ream, Fast, Easy.
Accurate. Use No. 1498
1/2" Sioux Electric Drill.
Advance Reamer slowly. Jig
or holding tool is not re-
quired with these Aligning
Reamers.



Hand reaming with tap wrench.

"EXAMPLE"

The 11/32" size valves are furnished with stems that are .003, .015 and .030 oversize. To install valves with oversize stems, a kit of Guide Reamers is recommended in the following sizes.

11/32" $\pm .003$ Reamer with standard diameter pilot end.

11/32" $\pm .015$ Reamer with $\pm .003$ oversize pilot end.

11/32" $\pm .030$ Reamer with $\pm .015$ oversize pilot end.

Due to the close fitting pilot end the Reamers must be used in sequence. Use the $+.003$ first, then the $+.015$, and the $+.030$.

It is advisable to clean out the old guide hole with a suitable guide cleaner or standard size guide reamer to prevent the close fitting pilot end of the oversize reamer from sticking.

Insert the reamer from the top of the cylinder head into the outer end of the guide as shown.

Advance the reamer very slowly into the guide as the lead end of blades do all the cutting.

Can be furnished in .001, .002, .003 or .004 oversize or undersize, same price as the standard size.

Decimal Size & Cat. Number	Size	Length
G-312	5/16	6 3/4"
G-328	21/64	6 3/4"
G-343	11/32	7"
G-3467	11/32 + .003	7"
G-3587	11/32 + .015	7"
G-359	23/64	7"
G-3737	11/32 + .030	7"
G-373	3/8" — .002	7"
G-375	3/8	7"
G-3780	3/8 + .003	7"
G-3800	3/8 + .005	7"
G-3850	3/8 + .010	7"
G-3900	3/8 + .015	7"
G-390	25/64	7"
G-3950	3/8 + .020	7"
G-396	.396	7"
G-4050	3/8 + .030	7"
G-406	13/32	7"
G-421	27/64	7"
G-437	7/16	7 1/2"
G-453	29/64	7 1/2"
G-468	15/32	7 1/2"
G-484	31/64	7 1/2"
G-500	1/2	8"
G-515	33/64	8"
G-531	17/32	8"
G-562	9/16	9"
G-593	19/32	9"
G-625	5/8	10"
G-687	11/16	10"
G-750	3/4	12"

Use Decimal Size when ordering.

(Example, 5/16" minus .001, G-311).

SIoux OVERSIZE GUIDE REAMER SETS

No. G-34 Set For Chevrolet, Ford and Mercury

G3467 Reamer 11/32" $\pm .003$

G3587	Reamer	11/32"	+.015
-------	--------	--------	-------

G3737 Reamer 11/32" $\pm .030$

No. G-38 Set For Chrysler, DeSoto, Dodge and Plymouth

G3800 Reamer 3/8" $+.005$

G3900 Reamer 3/8" +.015

G4050 Reamer 3/8" $\pm .030$

No. G-39 Set For

Chevrolet, Ford and Mercury

G-3730 Reamer Std.

G-3760 Reamer $+.003$

G-3880 Reamer $+.015$

G-4030 Reamer $+.030$



STANDARD THE

65



SIOUX TAPERED PILOTS

STANDARD THE WORLD OVER



The Patented Pilot illustrated above shows length of Tapered Pilot from end to end indicated as "A." The section of the Pilot indicated as "B" is the upper end. Charts list Pilots in numerical sequence by catalog numbers. Columns A and B show measurements as indicated in illustration above.

The GREATEST POSSIBLE ACCURACY can be obtained by using SIOUX Tapered Pilots with the SIOUX Dual Action Valve Seat Grinder.

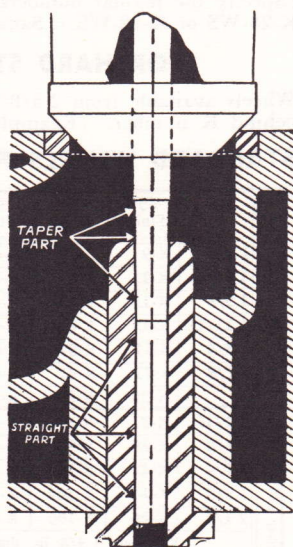
The Sioux method of tapering only the upper portion, instead of the whole length of the pilots, is the only positive way to prevent misalignment and inaccurate grinding.

Sioux Tapered Pilots also serve as a plug gauge for checking wear in guides. If .004 oversize tapered pilot is loose then guide should be replaced.

How They Are Used —

When placed in the engine and turned with a slight pressure they are anchored rigidly in the least worn part of the valve guide.

SIOUX Tapered Pilots are precision tools, hardened and ground to very close limits.



By selecting largest Sioux Tapered Pilot which will enter valve guide, straight part aligns pilot correctly with center line of valve guide, assuring perfect accuracy.

Order by Catalog Number

TAPERED PILOTS WITH NO. 2 SHORT UPPER END FOR USE WITH NO. 1672-BB SHORT HOLDER ONLY

Number	Size, In.	A	B
T050	1/4	4 5/8"	2 1/2"
T081	9/32	4 5/8"	2 1/2"
T12	5/16	5 7/8"	2 1/2"
T13	5/16+.001	5 7/8"	2 1/2"
T14	5/16+.002	5 7/8"	2 1/2"
T15	5/16+.003	5 7/8"	2 1/2"
T42	11/32—.001	6 1/16"	2 1/2"
T43	11/32	6 1/16"	2 1/2"
T44	11/32+.001	6 1/16"	2 1/2"
T45	11/32+.002	6 1/16"	2 1/2"
T46	11/32+.003	6 1/16"	2 1/2"
T47	11/32+.004	6 1/16"	2 1/2"
T75	3/8	6 1/2"	2 1/2"
T76	3/8+.001	6 1/2"	2 1/2"
T77	3/8+.002	6 1/2"	2 1/2"
T78	3/4+.003	6 1/2"	2 1/2"
T79	3/8+.004	6 1/2"	2 1/2"
T96	.396	6 1/2"	2 7/8"
T137	7/16	7 7/8"	2 7/8"
T138	7/16+.001	7 7/8"	2 7/8"
T139	7/16+.002	7 7/8"	2 7/8"
T140	7/16+.003	7 7/8"	2 7/8"
T141	7/16+.004	7 7/8"	2 7/8"
T150	1/2	7 7/8"	2 7/8"
T151	1/2+.001	7 7/8"	2 7/8"
T152	1/2+.002	7 7/8"	2 7/8"
T153	1/2+.003	7 7/8"	2 7/8"
T154	1/2+.004	7 7/8"	2 7/8"
TSA1031	1 1/32	4 5/8"	2 7/8"

TAPERED PILOTS, 3/8+.010 NO. 2 UPPER END FOR 1702-BB HOLDER OR NO. 2 HOLE SHANKS

No. & Dec. Size	Size, In.	A	B
T250	1/4	6 1/8"	4"
T251	1/4+.001	6 1/8"	4"
T252	1/4+.002	6 1/8"	4"
T253	1/4+.003	6 1/8"	4"
T254	1/4+.004	6 1/8"	4"
T281	9/32	6 1/8"	4"
T282	9/32+.001	6 1/8"	4"
T283	9/32+.002	6 1/8"	4"
T284	9/32+.003	6 1/8"	4"
T285	9/32+.004	6 1/8"	4"
T310	5/16—.002	7 3/8"	4"
T311	5/16—.001	7 3/8"	4"
T312	5/16	7 3/8"	4"
T313	5/16+.001	7 3/8"	4"
T314	5/16+.002	7 3/8"	4"
T315	5/16+.003	7 3/8"	4"
T316	5/16+.004	7 3/8"	4"
T328	21/64	7 3/8"	4"
T341	11/32—.002	7 9/16"	4"
T342	11/32—.001	7 9/16"	4"
T343	11/32	7 9/16"	4"
T344	11/32+.001	7 9/16"	4"
T345	11/32+.002	7 9/16"	4"
T346	11/32+.003	7 9/16"	4"
T347	11/32+.004	7 9/16"	4"
T358	.358	7 9/16"	4"
T359	23/64	7 9/16"	4"
T372	3/8—.003	8"	4"
T373	3/8—.002	8"	4"
T374	3/8—.001	8"	4"
T375	3/8	8"	4"
T376	3/8+.001	8"	4"
T377	3/8+.002	8"	4"
T378	3/8+.003	8"	4"
T379	3/8+.004	8"	4"
T380	.380	8"	4"
T385	.385	8"	4"
T395	.395	8"	4"
T390	25/64	8"	4"
T396	.396	8"	4"
T397	.397	8"	4"
T398	.398	8"	4"
T399	.399	8"	4"
T403	13/32—.003	8"	4"
T404	13/32—.002	8"	4"
T405	13/32—.001	8"	4"
T406	13/32	8"	4"
T407	13/32+.001	8"	4"
T408	13/32+.002	8"	4"
T409	13/32+.003	8"	4"
T410	13/32+.004	8"	4"
T434	7/16—.003	8 3/4"	4"
T435	7/16—.002	8 3/4"	4"
T436	7/16—.001	8 3/4"	4"
T437	7/16	8 3/4"	4"
T438	7/16+.001	8 3/4"	4"
T439	7/16+.002	8 3/4"	4"
T440	7/16+.003	8 3/4"	4"
T441	7/16+.004	8 3/4"	4"
T468	15/32	8 3/4"	4"
T500	1/2	8 3/4"	4"
T501	1/2+.001	8 3/4"	4"
T502	1/2+.002	8 3/4"	4"
T503	1/2+.003	8 3/4"	4"
T504	1/2+.004	8 3/4"	4"
T531	17/32	9"	4"
T532	17/32+.001	9"	4"
T533	17/32+.002	9"	4"
T534	17/32+.003	9"	4"
T535	17/32+.004	9"	4"
T593	19/32 Fd. A	6 3/8"	4"
T594	19/32+.001	6 3/8"	4"
T850	.850 Fd.	5 5/16"	4"
T1030	1 1/32—.001	5 3/4"	4"
T1031	1 1/32 Fd.	5 3/4"	4"
T1032	1 1/32+.001	5 3/4"	4"



**STANDARD
THE**

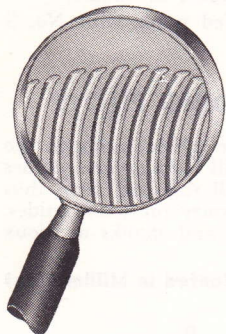
67



SIOUX VALVE CLEANERS

STANDARD THE WORLD OVER

VALVE CLEANER ATTACHMENT



The more often reversed the longer its life and efficiency.

The SIOUX Valve Cleaner is an attachment that can be added to your present bench grinder — 6", 7", or 8" or can be supplied with bench grinder.

Quickly cleans valves. The quick change adaptor feature allows brush to be reversed so new sharp cutting points will be brought into play. Dull brushes stop cutting.

FASTER: Valves can be cleaned in 15 seconds.

SAFE: Chuck holds valve; fingers are never near wire brush.

CLEANER: Hardest carbon deposits disappear, leaving a clean, shiny surface.

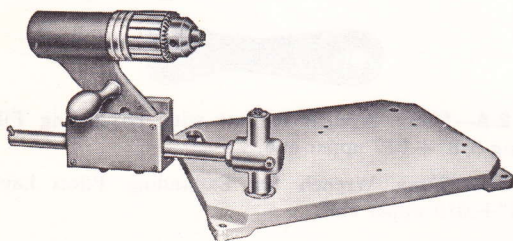
EASIER: Takes drudgery out of valve cleaning. Machine does the work. No skill required.

ECONOMY: By using the quick change reversing adaptor, brushes last three times as long. Nothing to wear, or get out of order.

STURDY: Ball and needle bearing construction with 5/8" gear chuck.

CAPACITY: 5/8" diameter, any length.

VALVE CLEANER ATTACHMENT

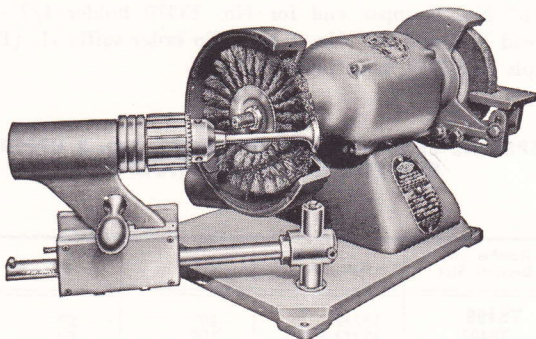


No. 564—Valve Cleaner Attachment — Basic unit (less grinder) includes No. 462-6" Quick Change Wire Brush and No. 561 Adaptor, 1/2" for 6" bench grinder. Capacity 5/8", any length.

CHUCK

No. 21004—1/2" Cap. 1/2"-20 Thread Chuck for right side of bench grinder to hold carbon cleaning brushes.

VALVE CLEANER ATTACHMENT

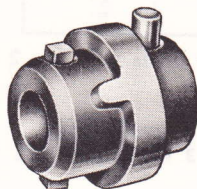


No. 564A—Valve Cleaner Attachment — As above and one 6", 1/3 H.P. Bench Grinder, with 462-6" wire wheel.

No. 564B—Valve Cleaner Attachment — As above and one 7", 1/2 H.P. Bench Grinder, with 462-6" wire wheel.

No. 564C—Valve Cleaner Attachment — As above and one 8", 3/4 H.P. Bench Grinder, with 462-6" wire wheel.

Sioux Wire Wheels — See Page 21



QUICK CHANGE ADAPTOR

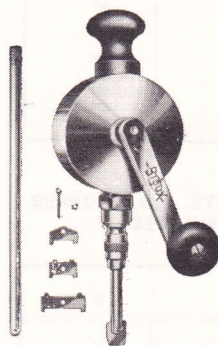
No. 561—for 1/2" shaft.

No. 561A—for 5/8" shaft.

No. 561B—for 3/4" shaft.

Quick Change Adaptor fits onto shaft of bench grinder; also permits special SIOUX knotted wire brush to be quickly reversed on shaft bringing up new cutting points.

SIOUX HAND VALVE GRINDERS



No. 400—Valve Grinder, highly finished gray iron body. Pressed steel gears. Four driving points and one long extension shank provided. Reciprocating motion for perfect valve lapping by simply turning the handle. The end-thrust ball-bearing, with a spring to take up wear, assures smooth running and full efficiency.

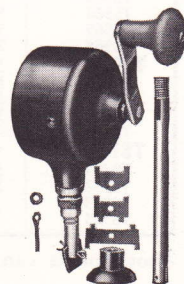
No. B-33—Set of 4 driving points.

No. B-34—Lifting Spring.

No. 401—Valve Grinder, same exclusive features and operation as the No. 400 Sioux Valve Grinder.

No. 408—1 5/16" Vacuum Cup Attachment, for use on V8-85 H. P. Fords and other valves of similar type, without notches in valve head.

No. 409—1" Vacuum Cup Attachment, for use on Ford V8-60 H. P.



STANDARD
THE

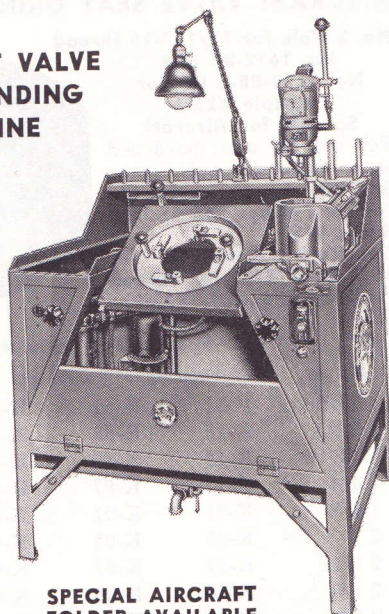
AIRCRAFT VALVE SEAT GRINDERS

STANDARD THE WORLD OVER



SIoux WET VALVE SEAT GRINDING MACHINE

Features
Speed
Accuracy
and Finish



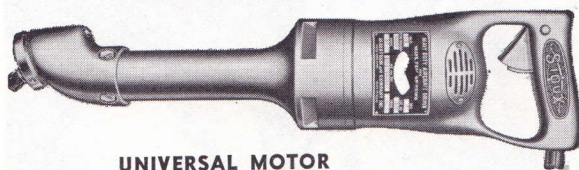
SPECIAL AIRCRAFT FOLDER AVAILABLE

No. 1680—Sioux Wet Valve Seat Grinding Machine for Aircraft Radial Engines. Finish, machine tool grey. Substantial construction with welded steel frame and all panels of heavy gauge metal. Handy shelf with metal pins to hold grinding wheels and wheel holders and retaining holes for pilots. Furnished with a fully adjustable shaded light and 3-prong twist lock electric connections, third wire for ground. Includes Dressing Tool and No. 1684 Power Drive for wheel dressing. (Coolant pump not Universal) Specify voltage.

Pilots, Grinding Wheels, Wheel Holders and Driver are not included with No. 1680 machine and must be purchased extra.

Size: Floor space 30x36 inches; working height, 32 1/2 inches; shelf height, 41 1/2 inches.

AIRCRAFT HEAVY DUTY DRIVER



UNIVERSAL MOTOR

Ball and Needle Bearings Throughout

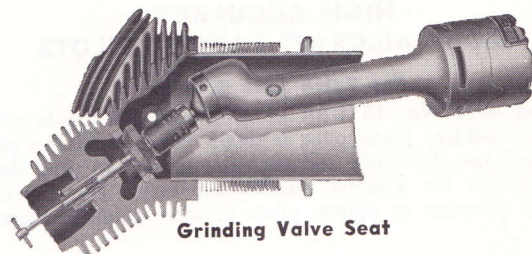
No. 1690—The driving spindle is 35° angle.

SPECIFICATIONS

7 Amps at 115 Volts
Length overall.....22 in.
Net weight.....10 3/4 lbs.
Speed Standard.....8000 R.P.M.

No. 1695—The driving spindle is adjustable, for straight and 35° angle. Simply remove the collar and turn the driving spindle to required position. Otherwise the same as the 1690. Required for most small engines.

No. 1693—Heavy Duty Driver, Straight. Otherwise the same as No. 1690.



Grinding Valve Seat

PRODUCTION HOLDERS

Specify Hex if for Hex Drive
Finished to Precision Size.

No. 1674-BB-2 — Ball-Bearing Grinding Wheel Holder, 11/16"-16 thread, No. 2 hole. For Pilots with 3/8"+.010 No. 2 upper end.

No. 1674-BB-5—Ball-Bearing Grinding Wheel Holder, for large Aircraft Valves. 1/2" hole, 7/8"-14 thread. For Pilots with 1/2" diameter upper end.

PILOTS WITH 1/2" END FOR No. 1674-BB-5—Specify Pilot Number suffixed by -5. (Example: AEX-437-5 or AT-437-5).

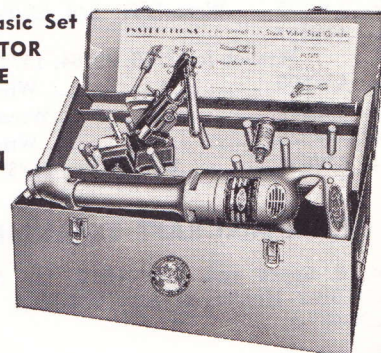


HOLDER

No. 1672-BB—Aircraft Ball-Bearing Grinding Wheel Holder, 11/16"-16 thread. For Pilots with 3/8"+.010 No. 2 upper end.

AIRCRAFT VALVE SEAT GRINDER SET

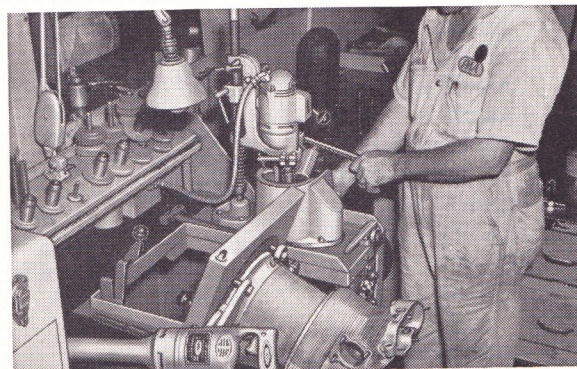
No. 1675-BB — Basic Set
UNIVERSAL MOTOR
SPLINE DRIVE



DUAL-ACTION

No. 1675-BB—Basic Set Consists of

- 1—No. 1695.....Sioux Heavy Duty Driver
 - 1—No. 1672-BB.....Ball-Bearing Holder
 - 1—No. 1713-B.....Sioux Dressing Tool, equipped with No. 1718-C Pilot. Illustrated on Page 59.
 - 1—No. 1675-A.....Sioux Metal Box
- Add to No. 1675-BB Set the Aircraft Pilots and Grinding Wheels to fit the engines to be serviced. For use on cast, hardened steel, bronze and Stellite valve seats.



TOOLS

WORLD
OVER



GRINDERS ACCESSORIES

STANDARD THE WORLD OVER

HIGH ACCURACY SIOUX AIRCRAFT TAPERED PILOTS

For Valve Seat Grinding

Used with No. 1674-BB or No. 1672-BB ball-bearing wheel holder. Each pilot is .0005 larger than the preceding size, hardened and precision ground to very close limits for the greatest possible accuracy. Use tapered pilot wrenches to tighten pilots in valve guide if desired.



AT Series and AS Aircraft Tapered Pilots

For use with 1674-BB-2 or 1672-BB Holder. Suffix-2 behind decimal size. (Example AT437-2).

For use with 1674-BB-5 Holder. Suffix-5 behind decimal size. (Example AT437-5).

Prices for above same as Aircraft Expanding Pilots.

The AT Tapered Aircraft Pilot is inserted into Guide from inside the Cylinder.

The AS Tapered Pilots are inserted from outside Cylinder into the Guide Hole. Wrenches not required.

Wrenches for AT Aircraft Tapered Pilots

Used in threaded end of pilots to tighten pilot in valve guide.

No. AW312.....Wrench for 5/16 and 11/32 Pilots

No. AW375.....Wrench for 3/8, 25/64 and 16/32 Pilots

No. AW437.....

Wrench for 7/16, 29/64, 15/32 and 31/64 Pilots

No. AW500.....Wrench for 1/2 Pilots

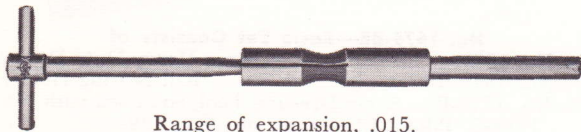
No. AW562.....Wrench for 9/16 Pilots

No. AW625.....Wrench for 5/8 Pilots

No. AW656.....Wrench for 21/32 and 11/16 Pilots

SIOUX AIRCRAFT EXPANDING PILOTS

No. 2 upper end 3/8" +.010, for No. 1672-BB and 1674-BB-2 Holder. If for 1674-BB-5 add -.5. Example: AEX-437-5.



Range of expansion, .015.

Up to 13/32", .003 under to .012 over.

7/16" and up, .005 under to .010 over.

Number	Size	Number	Size
AE-312	5/16	AEX-500	1/2
AE-343	11/32	AEX-500-L	1/2
AE-359	23/64	AEX-531	17/32
AE-375	3/8	AEX-562	9/16
AE-390	25/64	AEX-562-L	9/16
AE-406	13/32	AEX-625	5/8
AEX-437	7/16	AEX-625-L	5/8
AEX-453	29/64	AEX-656	21/32
AEX-468	15/32	AEX-687	11/16
AEX-484	31/64	AEX-687-L	11/16
		AEX-750	3/4

AEX Pilots Have Folding Handle
Sizes not listed furnished on special order.

AIRCRAFT VALVE SEAT GRINDING WHEELS

No. 2 Hole for 11/16"-16 thread

No. 1672-BB and

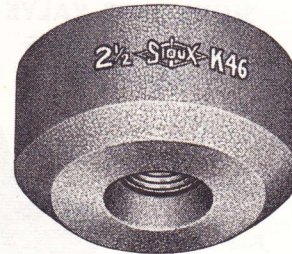
No. 1674-BB-2 Holder

Example K25-2

Specify for Aircraft

For use on cast, hardened steel, and bronze valve seats. Special wheels available for hard alloys and Stellite Suffix WS.

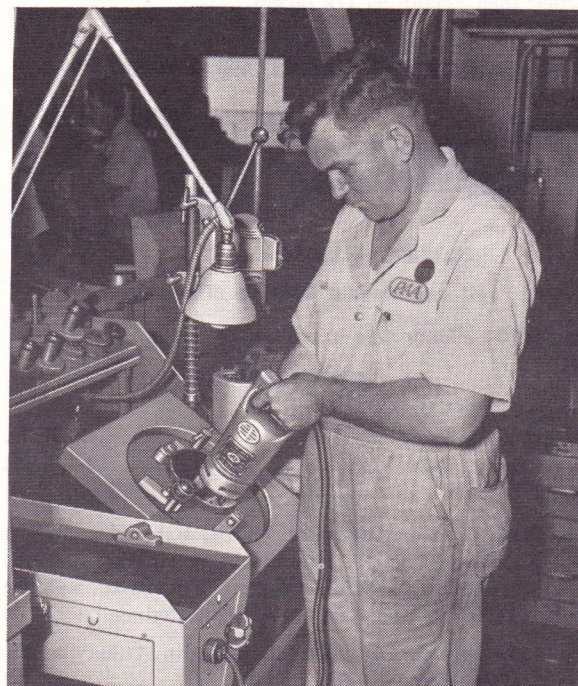
Specify No. 3 Hole for No. 1674-BB-5 7/8"-14 Thread Holder. (Example K25-3)



Specify For Aircraft

Size In.	45° Finishing	45° Roughing	30° Finishing	30° Roughing
1 9/16	K-11	K-81	K-411	K-481
1 5/8	K-13	K-83	K-413	K-483
1 11/16	K-15	K-85	K-415	K-485
1 3/4	K-17	K-87	K-417	K-487
1 7/8	K-21	K-91	K-421	K-491
2	K-25	K-95	K-425	K-495
2 1/16	K-27	K-97	K-427	K-497
2 1/8	K-28	K-98	K-428	K-498
2 1/4	K-42	K-102	K-442	K-512
2 3/8	K-44	K-104	K-444	K-514
2 1/2	K-46	K-106	K-446	K-516
2 5/8	K-49	K-109	K-449	K-519
2 3/4	K-51	K-111	K-451	K-521
2 7/8	K-53	K-113	K-453	K-523
3	K-55	K-115	K-455	K-525
3 1/16	K-55A	K-115A		
3 1/8	K-56	K-116	K-456	K-526
3 3/16	K-56A	K-116A		
3 1/4	K-57	K-117	K-457	K-527
3 1/2	K-59	K-119	K-459	K-529

1/16" Sizes Can Be Supplied Where Not Shown
Specify For Aircraft



STANDARD
THE

A vintage dental X-ray machine, likely a portable unit. It features a circular base with a perforated metal top and four small wheels. A vertical column supports a horizontal arm that can rotate. A flexible, articulated arm extends from the horizontal arm, ending in a cylindrical component, possibly a collimator or filter. The machine is constructed from dark metal, possibly cast iron or steel.

A high-pressure water spray gun system. It consists of a coiled black hose with a braided metal reinforcement. The hose is connected to a trigger gun assembly, which has a black handle and a silver-colored nozzle. The trigger gun is mounted on a black base. The hose has a label that reads "100 PSI".

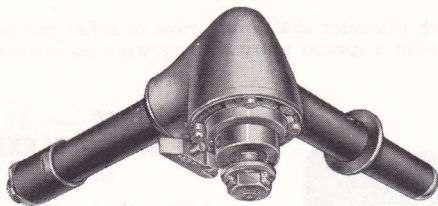
Combines Utility and Versatility



SIoux FLEXIBLE SHAFT ATTACHMENTS

STANDARD THE WORLD OVER

ANGLE WORK HEADS



Sioux Angle Work Heads are fully ball-bearing, grease packed and sealed, requiring no further lubrication. High Speed for sanding or grinding. 5/8"-11 thread.

No. 1062—Sioux Angle Work Head, 4 to 5 ratio (spindle speed 4250 R.P.M.), for Nos. 1005, 1009, 1027, 1090 and 1095 Flexible Shafts. Motor speed 3450 R.P.M., on 60 cycle.

No. 1061—Sioux Angle Work Head, 4 to 10 ratio (spindle speed 4000 R.P.M.), for No. 1020 Flexible Shaft with motor speed 1725 R.P.M. on 60 cycle.

No. 827—Sioux Angle Work Head, 1 to 1 ratio, for No. 1075, Serial No. 843 and up, and No. 1080, Serial No. 357 and up.

Available Also With 3/8"-16 Thread

STRAIGHT HANDLE FOR FLEXIBLE SHAFTS



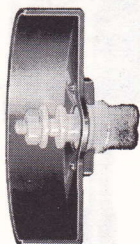
No. 666 — Straight Handle Assembly Ball-Bearing for Flexible Shaft. 5/8"-11 thread.

Available Also With 3/8"-16 Thread

GUARD FOR GRINDING WHEEL

No. 284—Guard for 4 inch grinding wheel, for No. 666 Straight Handle.

No. 286—Guard for 6 inch Grinding wheel, for No. 666 Straight Handle.



THE SIOUX SHAFT CANNOT TOUCH ITS HOUSING

Roller bearings at regular intervals along the full length of the shaft entirely eliminates binding when curved in use.

SIOUX RUBBER COVERED HOUSING

The inner portion of the Sioux Housing is made of flat spring steel.

The outer surface is covered with woven fabric over which is a vulcanized rubber coating.



Patent No. 1481078 Patent No. 1481078
A-65—Flexible Shaft Only A-66—Flexible Shaft Housing

No. A-65—5 1/4 ft. Flexible Shaft only, 7/16" diameter.

No. A-65B—8 1/2 ft. Flexible Shaft only, 7/16" diameter.

No. A-66—5 1/4 ft. Housing for No. A-65 Flexible Shaft.

No. A-66B—8 1/2 ft. Housing for No. A-65B Flexible Shaft.

Replacement Shafts and Housings
Fit All Sioux Shafts

SPECIFICATIONS FOR FLEXIBLE SHAFTS ILLUSTRATED ON PRECEDING PAGE

Unit No.	Type Unit	Used For	Equipped With Head	Drive	Shaft Length	H.P.	Uses Shaft No.	Uses Housing No.	Motor Speed	Net Weight	Ship. Weight
1095	Suspended	Gen Use	666	Direct	6'	3/4	65	A66	3450	60	75
1095-A	Suspended	Gen Use	666	Direct	8 1/2'	3/4	65B	A66B	3450	70	85
1027	Movable	Gen Use	1062	Direct	6'	3/4	A65	A66	3450	125	142
1027-A	Movable	Gen Use	1062	Direct	8 1/2'	3/4	A65B	A66B	3450	135	150
1080	Movable	Gen Use	827	Belt	6'	3/4	A65	A66	1725	165	180
1080-A	Movable	Gen Use	827	Belt	8 1/2'	3/4	A65B	A66B	1725	170	185
1080-B	Movable	Tire	666	Belt	6'	3/4	A65	A66	1725	170	180
1020	Movable	Tire	666	Direct	6'	3/4	A65	A66	1725	145	160
1068	Bench	Tire	666	Belt	6'	None	A65	A66	None	30	35
1125	Movable	Tire	666	Direct	6'	3/4	A65	A66	3450	145	160

*CAN ALSO BE FURNISHED WITH 1 H.P. MOTOR, \$15.00 EXTRA

No. 1068 Uses Belt No. 14429 as Replacement.

No. 1080 Uses Belt No. 14430 as Replacement up to Serial 2299.

No. 1080 Uses Belt 14450 from Serial 2300 up.

See Page 21 for Wire Wheel Brushes.

None are available in 32 Volt.

For Motors other than 115 or 220 Volt, 50 or 60 cycle single phase add \$25.00 extra to price list.

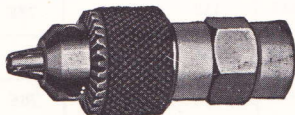
FOR MOTOR INFORMATION SEE INSIDE FRONT COVER



STANDARD
THE



A circular, textured object, possibly a woven basket or a piece of fabric, with a central hole and a decorative, stylized mark in the center. The texture consists of concentric rings of fine, parallel lines. The central mark is a dark, stylized emblem, possibly a logo or a decorative element.



73



REPLACEMENT PARTS FOR SIOUX EQUIPMENT

STANDARD THE WORLD OVER

Catalog No.	Serial No.	Motor Brush No. †	Switch No.	Cord No.	Belts				Diamonds		Grinding Wheels		Remarks
					Grind- ing Head	Chuck Head	Chuck Drive Shaft	Pump When Used	Grind- ing Wheel	Right End	Left	Right	
620	Up to 17033	None	18178	18505	14410	14409	14406	14415	112	None	78E	81	No. 14434 Belt for 25, 40, 50, Cycle
620	17034 to 20381	None	18177	18505	14410	14409	14406	14415	112	None	78E	81	No. 14434 Belt for 25, 40, 50, Cycle
620	20382 to 50000	None	18353	18505	14410	14409	14406	14415	112	None	78E	81	No. 14434 Belt for 25, 40, 50, Cycle
620	50001 to 51866	None	18159	18505	14410	14409	14406	14415	112	None	78E	81	No. 14434 Belt for 25, 40, 50, Cycle
622	All	None	18163	18505	14405	14427	14408	144-05	112	None	78E	81	
622N	All	None	18159	18505	14419	14401	14402	14403	112	None	78E	81	
624	All	None	18200	18402	14410	14409	14406		112	None	78E	None	
645	Up to 34999	None	18353	18505	14400	14401	14402	14403	1715	1715	78E	81	
645	35000 to 35216	None	18353	18505	14453	14401	14445	14403	1715	1715	78E	81	
645	35217 to 40000	None	18353	18505	14453	14401	14445	14401	1715	1715	78E	81	
645	40001 Up	None	18190	18505	14453	14401	14445	14401	1715	1715	78E	81	
650	30001 to 33993	None	18177	18505	14410	14409	14406	14415	112	None	78E	81	
650	33994 Up	None	18353	18505	14410	14409	14406	14415	112	None	78E	81	
655	All	None	18163	18505	14405	14427	14408	144-05	112	657-361	78E	81	
657	All	None	18163	18505	14410	14409	14406	14415	112	657-361	78E	81	No. 14434 Belt for 25, 40, 50, Cycle
660	10565 Up	None	18353	18505	14435	14409	14406	14415	112	None	78E	81	No. 14410 Belt for 25, 40, 50, Cycle
661 662-663	All	None	18163	18505	14432	14443‡	14446	14447	112	657-361	78E	81	‡661 Uses Belt No. 144-17
664	All	None	18353	18505	*14436	14409	14445	14415	112	None	78E	81	No. 14438 Belt for 90° Valves, No. 169 for 667-SP Specify Serial No.
682	Up to 600	None	18163	18570	14418	14420	14421	14443	1715-A	1715-A	178R	181	
682	601 Up	None	18163	18570	14440	14441‡	14421	14443	1715-A	1715-A	178R	181	‡14455 for 1 1/16" Chuck ‡14441 for 1 1/4" Chuck
620-UN	Up to 17033 Incl.	18002	18178	*	*14428	14409	14406	14415	112	None	78E	81	No. 144-05 Belt Motor to Pulley
620-UN	17054 to 20381 Incl.	18002	18177	*	*14428	14409	14406	14415	112	None	78E	81	No. 144-05 Belt Motor to Pulley
620-UN	20382 to 50000 Incl.	18002	18353	*	*14428	14409	14406	14415	112	None	78E	81	No. 144-05 Belt Motor to Pulley
620-UN	50001 Up	18002	18159	*	*14428	14409	14406	14415	112	None	78E	81	No. 144-05 Belt Motor to Pulley
622-UN	All	18002	18163	*	14448	14427	14408	144-05	112	None	78E	81	No. 144-05 Belt Motor to Pulley
622-N-UN	All	18002	18159	*	14407	14401	144-00	144-12	112	None	78E	81	No. 144-05 Belt Motor to Pulley
645-UN	All	18002	18159	*	14407	14401	144-00	144-12	1715	1715	78E	81	No. 14431 Belt Motor to Pulley
655-UN	All	18002	18163	*	14448	14427	14408	144-05	112	657-361	78E	81	No. 144-05 Belt Motor to Pulley
657-UN	All	18002	18353	*	14428	14409	14406	14415	112	657-361	78E	81	No. 144-05 Belt Motor to Pulley
661-UN 662-663	*All	18003	18163	*	14412	14417	14446	14444	112	657-361	78E	81	Up to Ser. 457 Use Switch No. 18353 No. 144-05 Belt

† Per Pair.

* Furnish Catalog, Serial and Model Number when ordering parts.

‡ Refer to Remark Column.

REPLACEMENT PARTS FOR SIOUX EQUIPMENT

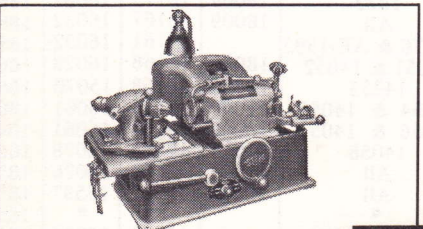
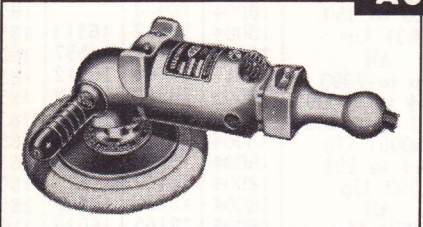
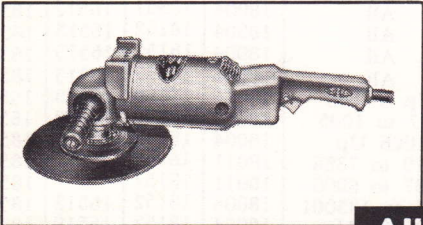
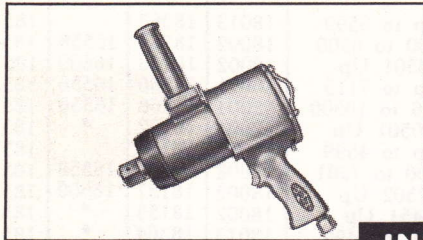
Catalog No.	Serial No.	Motor Brush No.†	Switch No.	Armature No.	Cord No.
242	240-244-246	18005	18155	16506	18556
260	All	18009	18191	16086	18644
262	All	18009	18191	16086	18644
323	All	18015	18193	16080	18592
325	Up to 172113	18015	18172	16051	18592
325	172123 Up	18015	18193	16051	18592
330	Up to 171414	18015	18172	16060	18592
330	171424 Up	18015	18193	16060	18592
333	All	18015	18193	16080	18592
335	Up to 185791	18015	18172	16060	18592
335	185801 Up	18015	18193	16060	18592
1005	1001 to 1609		18178	*	18505
1005	1610 to 5999		18177	*	18505
1005	6000 Up		18353	*	18505
1009	All		18362	*	18505
1020	Up to 1395		18178	*	18505
1020	1396 to 1742		18161	*	18505
1020	1743 Up		18353	*	18505
1027	Up to 3499		18362	*	18505
1027	3500 Up		18184	*	18505
1075	All		18353	*	18582
1080	All		18353	*	18582
1190	110 Up	18002	18351	16514	18574
1195	68 Up	18003	18351	16515	18574
1200	Up to 5752	18011	18365	*	18574
1200	5753 to 6897	18011	18350	16554	18574
1200	6898 to 14999	18004	18350	*	18574
1200	15000 Up	18004	18350	16505	18574
1202	All	18004	18167	16527	18585
1203	All	18002	18350	16502	18574
1250	Up to 2774	18011	18365	16540	18574
1250	2775 to 3678	18011	18350	16540	18574
1250	3679 to 4499	18013	18350	16540	18574
1250	4559 to 7000	18002	18350		18574
1250	7001 to 8500	18003	18350	16503	18574
1250	8501 Up	18003	18351	16503	18574
1255	1346 Up	18002	18350		18574
1256	All	18004	18167	16527	18585
1259	All	18002	18351	16502	18574
1260	Up to 4904	18011	18350	16555	18574
1260	4905 Up	18004	18350	16555	18574
1265	Up to 6278	18011	18365	16555	18574
1265	6279 to 12410	18011	18350	16555	18574
1265	12411 to 20000	18004	18350	16555	18574
1265	20001 to 23459	18004	18350	16516	18574
1265	23460 to 25133	18004	18350	16517	18574
1265	25134 Up	18004	18350	16504	18574
1267	All	18002	18350	16502	18574
1295	1498 Up	1295-88	18350	16057	18574
1472	All	18009	18191	16085	18644
1473	All	18009	18191	16086	18644
1474	All	18009	18191	16086	18644
1475	Up to 40002	18009	18168	16028	18629
1475	40003 & Up	18005	18185	16028	18629
1477	All	18009	18191	16086	18644
1478	All	18009	18191	16086	18644
1479	All	18009	18191	16085	18644
1480	231 to 13999	18000	18180		18556
1480	14000 to 924991	18000	18150	16500	18556
1480	925001 Up	18000	18152	16500	18556
1485	All	18005	18185	16506	18556
1495	Up to 2000	18005	18179	16506	18556
1495	2001 to 100000	18005	18352	16506	18556
1495	100001 Up	18005	18155	16506	18556
1498	All	18004	18152	16562	18573
1500	Up to 2374	18011	18182		18573
1500	2375 to 4776	18011	18368	*	18573
1500	4777 Up	18004	18368	*	18573
1505	426 Up	18000	18150		18556
1510	All	18004	18153	16507	18573
1517	All	18004	18153	*	18573
1519	All	18004	18153	*	18573
1525	Up to 2201	18011	18182		18573
1525	2202 to 4590	18011	18368		18573
1525	4591 to 5700	18004	18368	16501	18573
1525	5701 Up	18004	18152	16501	18573
1537	225 to 750	18004	18368	16556	18573
1537	751 Up	18004	18152	*	18573

Catalog No.	Serial No.	Motor Brush No.†	Switch No.	Armature No.	Cord No.
1546	Up to 5599	18013	18367		18573
1546	5600 to 8500	18002	18367	16558	18573
1546	8501 Up	18002	18153	16509	18573
1548	Up to 7115	18011	18368	16556	18573
1548	7116 to 10500	18004	18368	16556	18573
1548	10501 Up	18004	18152	*	18573
1550	Up to 4599	18013	18364		18573
1550	5500 to 7501	18002	18364	16558	18573
1550	7502 Up	18002	18157	16509	18573
1552	451 Up	18002	18153	*	18573
1560	Up to 4499	18013	18364	*	18573
1560	4500 to 5500	18002	18364	16560	18573
1560	5501 Up	18002	18157	16510	18573
1562	351 Up	18002	None	16510	18573
1570	Up to 1999	18013	18364		18573
1570	2000 to 2750	18002	18364	16560	18573
1570	2751 Up	18002	18157	16510	18573
1572	Up to 50	18002	18367	16560	18573
1572	51 Up	18002	None	16510	18573
1575	Up to 10761	18006	18364	*	18573
1575	10762 to 10779	18007	18356	16511	18573
1575	18000 Up	18007	18356	16511	18573
1578	Up to 700	18006	18364	*	18573
1578	701 Up	18007	18356	16511	18573
1579	Up to 499	18006	18364	*	18573
1579	500 to 518	18007	18356	16511	18573
1579	750 Up	18007	18356	16511	18573
1684	All	18004	18351	16512	18573
1690	All	18004	18152	16513	18573
1692	All	18004	18152	16513	18573
1693	All	18004	18152	16513	18573
1695	Up to 146	18011	18368	16513	18573
1695	147 to 1005	18004	18368	16513	18573
1695	1006 Up	18004	18152	16513	18573
1700	2019 to 7386	18011	18368		18573
1700	7387 to 8000	18011	18152		18573
1700	8001 to 135001	18004	18152	16512	18573
1700	135002 Up	18004	18152	16519	18573
1705	400 to 850	18004	18368		18573
1705	851 Up	18004	18152	16513	18573
1709	All	18000	18152	16557	18556
1710	Up to 7993	18011	18368	16512	18573
1710	7994 to 11000	18004	18368	16512	18573
1710	11001 to 600000	18004	18152	16512	18573
1710	600001 Up	18004	18152	16519	18573
1712	244 to 291	18004	18368	16513	18573
1712	292 Up	18004	18152	*	18573
1770	All	18004	18152	16540	18573
1805	7501 Up	18003	18165	16039	18580
1806	23041 Up	18003	18165	16026	18580
1808	8253 Up	18003	18165	16037	18580
1832	All	18004	18152	16525	18633
1850	1871	18009	18173	16028	18629
1850	1872	18009	18173	16082	18629
1865	All	18009	18167	16032	18629
1869	AE-676 & AE-1393		18161	16052	18591
1885	14051 & 14052	18009	18168	16028	18629
1885	14053	18009	18168	15070	18629
1885	14054 & 14055	18009	18168	16061	18629
1885	14056 & 14057	18005	18185	16061	18629
1885	14058	18005	18185	16028	18629
1901	All	18003	18165	16026	18580
1928	All	18003	18165	16537	18580
2005	*		*	*	18505
2017	511 to 20001		18351	16024	18505
2017	20002 to 25472		18174	16075	18505
2017	25473 Up		18174	16072	18505
2024	Up to 49999		18353	*	18505
2024	50031 to 95002		18351	*	18505
2024	95003 to 100403		18174	16076	18505
2024	100404 Up		18174	16079	18505
2035	All		18353	16008	18505
2050	50002 Up		18162	*	18505
2050	50003 Up		18162	16077	18505
2065	Up to 2300		18161	*	18505
2065	2301 to 43571		18369	*	18505
2065	43572 Up		18161	16063	18591
2070	*		*	*	18505

† Per Pair

NOTE: Must have Catalog, Model and Serial Numbers

I N D E X



INDUSTRIAL

PAGES 1 THROUGH 42

	Page		Page
Air Control Units	25	Impact Wrenches – Air	1 to 7
Air Hose	25	Impact Wrenches – Elec.	8 to 9
Bench Grinders H.D.	34	Impact Wrench Access.	22 to 25
Bench Grinders, Access.	34	Portable Power Unit	30
Bits, Screw Driver	27 to 28	Pipe Threader, Adaptor	31
Brushes, Carbon Cleaning	41	Pipe Threader, Attach.	31
Brushes, Quick Change	21	Sander, Air-Vertical	19
Brushes, Wire Circular	21	Sander – Grinder – Elec.	42
Chucks, Electric Drill	40	Sander Guards	29
Chuck, Key Holder	40	Sander Accessories	29
Depressed Center Wheels	20	Saws – Electric	32

Drill Attachments	40	Hole Saws	41
Drills - Electric	35 to 39	Saw Blades	33
Drills - Air - Pistol	10	Saw Tables	33
Drills - Air - Lever	11	Sockets - Impact Wrench	22
Drills - Arbor	40	Screw Drivers - Air Pistol	14, 16
Finders - Screw Driver	28	Screw Drivers - Air Lever	15
Flared Cup Wheels	20	Screw Driver - Angle	15, 17
Grinders - Air - Vertical	18	Screw Driver - Attach.	26
Grinders - Air - Horizontal	18	Screw Drivers - Electric	17
Grinders - Elec.	42	Stands - Elec. Drill	40
Grinders - Elec. Portable	42	Nut Runner - Air - Pistol	12
Grinding Wheels	20, 34	Nut Runner - Air - Lever	13
		Winch, Portable	30

Abrasive Discs	46	Metal Tool Attachments	51
Abrasive Disc Cutter	47	Polisher - Portable	48
Abrasive Disc Hole Punch	47	Polish - Auto Body	49
Bonnets Polishing	49	Rubbing Compound	49
Metal Working Tool	50	Sanders	43

AUTO BODY

PAGES 43 THROUGH 51

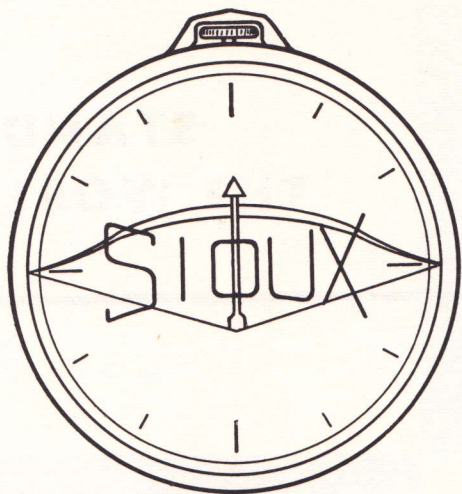
Backing Pads, Disc	44	Holders, Disc	44, 49
Cleaning Tool	48	Sander Flat	45
Guard - Sanding	44	Sander Orbital - Air	45

Aircraft Seat Grinders	69 to 70	Pilots, Expanding, Auto	67
Belts - V.F.G. Machines	74	Pilots Gauge - V.F.G. Machine	56
Bench Grinders - Light	73	Pilots, Solid, Auto	66, 67
Cabinets for V.F.G. Machine	57	Replacement Parts	74
Chucks for V.F.G. Machine	54, 55	Rocker Arm Grind Attach.	56
Dressing Tool - Valve Seat	59 to 61	Valve Cleaner Adapt.	68
Drivers Valve Seat	58, 60, 61	Valve Cleaner Brushes	63
Diamonds - V.F.G. Machine	57	Valve Cleaner Electric	68
Diamonds - Dressing Tool	59	Valve Face Grinders	53 to 55
Pilots, Aircraft	70	Valve Guide Cleaners	63

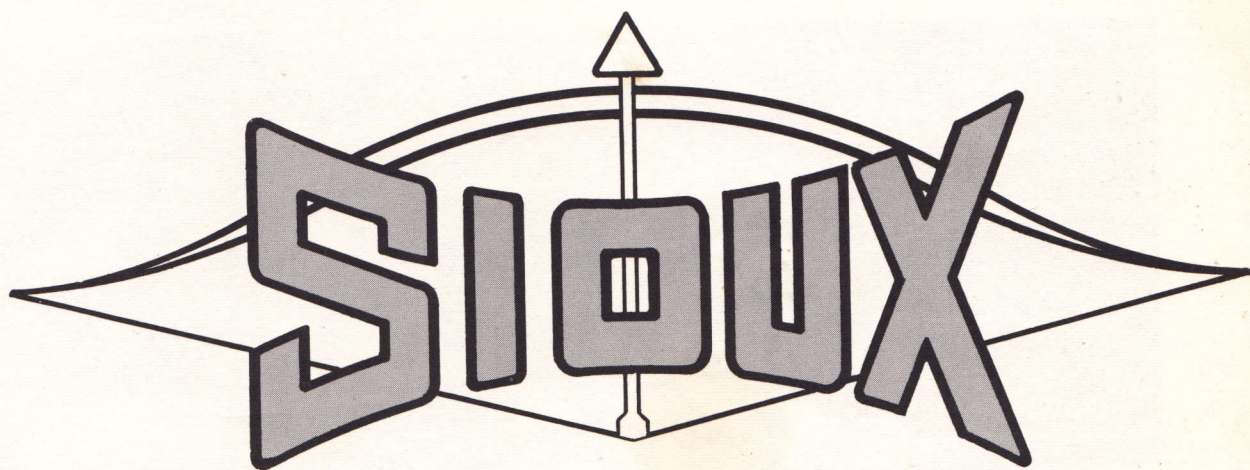
AUTOMOTIVE

PAGES 52 THROUGH 74

Flex Shafts	71	Valve Face Grind Attach.	56
Flex Shaft Attach.	72, 73	V.F.G. Gauges	56
Grinding Oil	56	V.F.G. Replacements	56
Grind - Wheels - Valve	65	V.F.G. Diamonds	57
Grind - Wheels - Aircraft	70	Valve Seat Grind Wheels	65
Grind Wheels - V.F.G. Machine	57	Valve Stem Guide Reamers	64
Hand Grinders, Valve	68	Valve Seat Grinding,	
Holders, Valve Seat	58, 60, 61	Special Sets	63
Holders, Valve Aircraft	69	Valve Seat Grinding Sets	60, 62
Pilots, Aircraft	70		



Watch



IN

“

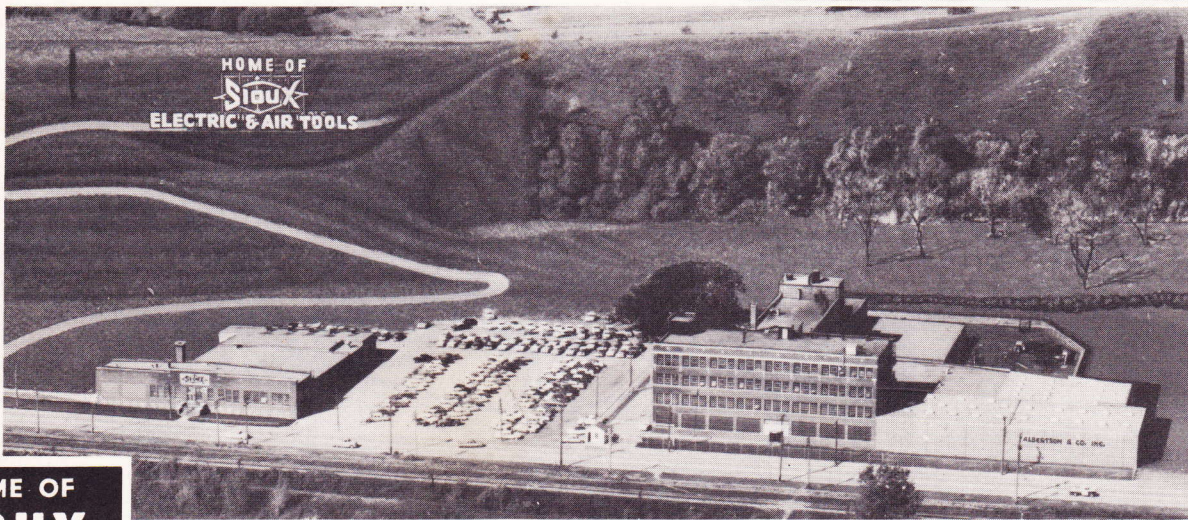
62

”

TOOLS

SIoux

**STANDARD
THE WORLD OVER**



**HOME OF
SIoux
TOOLS**

1757 Box
6312
6343
6325
1702 B3



Albertson & Co., Inc.
SIoux CITY, IOWA, U. S. A.